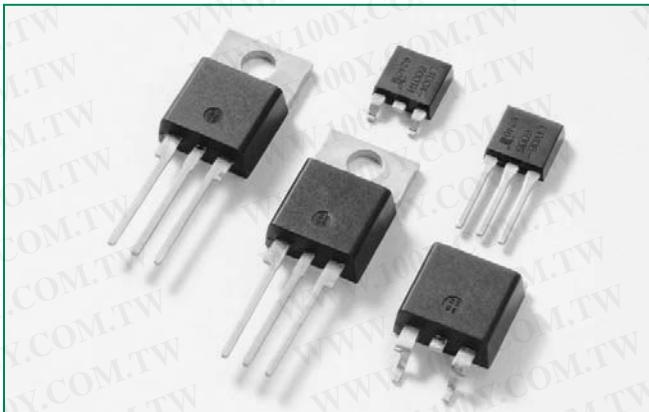


RoHS

Lxx08xx & Qxx08xx & Qxx08xHx Series



Description

8 Amp bi-directional solid state switch series is designed for AC switching and phase control applications such as motor speed and temperature modulation controls, lighting controls, and static switching relays.

Sensitive type devices guarantee gate control in Quadrants I & IV needed for digital control circuitry.

Standard type devices normally operate in Quadrants I & III triggered from AC line.

Alternistor type devices only operate in quadrants I, II, & III and are used in circuits requiring high dv/dt capability.

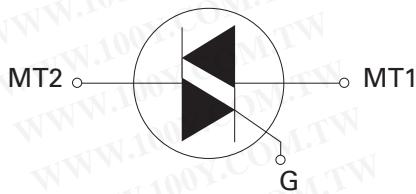
Agency Approval

Agency	Agency File Number
	L Package: E71639

Main Features

Symbol	Value	Unit
I_{TRMS}	8	A
V_{DRM}/V_{RRM}	400 to 1000	V
$I_{GT(Q1)}$	5 to 50	mA

Schematic Symbol



Features & Benefits

- RoHS compliant
- Glass – passivated junctions
- Voltage capability up to 1000 V
- Surge capability up to 100 A
- Electrically isolated "L-Package" is UL recognized for 2500Vrms
- Solid-state switching eliminates arcing or contact bounce that create voltage transients
- No contacts to wear out from reaction of switching events
- Restricted (or limited) RFI generation, depending on activation point of sine wave
- Requires only a small gate activation pulse in each half-cycle

Applications

Excellent for AC switching and phase control applications such as heating, lighting, and motor speed controls.

Typical applications are AC solid-state switches, light dimmers, power tools, home/brown goods and white goods appliances.

Alternistor Triacs (no snubber required) are used in applications with extremely inductive loads requiring highest commutation performance.

Internally constructed isolated packages are offered for ease of heat sinking with highest isolation voltage.

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Absolute Maximum Ratings – Sensitive Triac (4 Quadrants)

Symbol	Parameter		Value	Unit	
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Lxx08Ly	$T_c = 80^\circ\text{C}$	8	A
		Lxx08Ry / Lxx08Vy / Lxx08Dy	$T_c = 85^\circ\text{C}$		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	f = 50 Hz	t = 20 ms	65	A
		f = 60 Hz	t = 16.7 ms	85	
I^2t	I^2t Value for fusing	$t_p = 8.3 \text{ ms}$		26.5	A^2s
di/dt	Critical rate of rise of on-state current $I_G = 50\text{mA}$ with 0.1μs rise time	f = 120 Hz	$T_j = 110^\circ\text{C}$	70	$\text{A}/\mu\text{s}$
I_{GTM}	Peak gate trigger current	$t_p \leq 10 \mu\text{s}$	$T_j = 110^\circ\text{C}$	1.6	A
$P_{G(AV)}$	Average gate power dissipation		$T_j = 110^\circ\text{C}$	0.4	W
T_{stg}	Storage temperature range			-40 to 150	$^\circ\text{C}$
T_j	Operating junction temperature range			-40 to 110	$^\circ\text{C}$

Note: xx = voltage, y = sensitivity

Absolute Maximum Ratings – Standard Triac

Symbol	Parameter		Value	Unit	
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Qxx08Ry / Qxx08Ny	$T_c = 95^\circ\text{C}$	8	A
		Qxx08Ly	$T_c = 90^\circ\text{C}$		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	f = 50 Hz	t = 20 ms	83	A
		f = 60 Hz	t = 16.7 ms	100	
I^2t	I^2t Value for fusing	$t_p = 8.3 \text{ ms}$		41	A^2s
di/dt	Critical rate of rise of on-state current $I_G = 200\text{mA}$ with $\leq 0.1\mu\text{s}$ rise time	f = 120 Hz	$T_j = 125^\circ\text{C}$	70	$\text{A}/\mu\text{s}$
I_{GTM}	Peak gate trigger current	$t_p \leq 10 \mu\text{s}; I_{GT} \leq T_{GTM}$	$T_j = 125^\circ\text{C}$	1.8	A
$P_{G(AV)}$	Average gate power dissipation		$T_j = 125^\circ\text{C}$	0.5	W
T_{stg}	Storage temperature range			-40 to 150	$^\circ\text{C}$
T_j	Operating junction temperature range			-40 to 125	$^\circ\text{C}$

Note: xx = voltage, y = sensitivity

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Absolute Maximum Ratings — Alternistor (3 Quadrants)

Symbol	Parameter	Value	Unit
I_{TRMS}	RMS on-state current (full sine wave)	Qxx08LHy Qxx08RH _y / Qxx08NH _y Qxx08VHy / Qxx08DH _y	$T_c = 90^\circ\text{C}$ $T_c = 95^\circ\text{C}$
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	$f = 50 \text{ Hz}$	$t = 20 \text{ ms}$
		$f = 60 \text{ Hz}$	$t = 16.7 \text{ ms}$
I^2t	I^2t Value for fusing	$t_p = 8.3 \text{ ms}$	$Qxx08VHy / Qxx08DHy$ $Qxx08LHy / Qxx08RHy / Qxx08NHy$
di/dt	Critical rate of rise of on-state current		
I_{GTM}	Peak gate trigger current	$t_p \leq 10 \mu\text{s}; I_{GT} \leq I_{GTM}$	$T_j = 125^\circ\text{C}$
$P_{G(AV)}$	Average gate power dissipation	$T_j = 125^\circ\text{C}$	$Qxx08VHy / Qxx08DHy$
			1.6
T_{stg}	Storage temperature range	$I_{GT} = 10\text{mA}$	$Qxx08VHy / Qxx08DHy$ $Qxx08LHy / Qxx08RHy / Qxx08NHy$
T_j	Operating junction temperature range	$I_{GT} = 35\text{mA}$	0.4 0.5

Note: xx = voltage, y = sensitivity

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Electrical Characteristics ($T_j = 25^\circ\text{C}$, unless otherwise specified) — Sensitive Triac (4 Quadrants)

Symbol	Test Conditions	Quadrant		$Lxx08x6$	$Lxx08x8$	Unit	
I_{GT}	$V_D = 12\text{V}$ $R_L = 60 \Omega$	$I - II - III$	MAX.	5 10	10 20	mA	
V_{GT}		ALL	MAX.	1.3		V	
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 \text{ k}\Omega$ $T_j = 110^\circ\text{C}$	ALL	MIN.	0.2		V	
I_H	$I_T = 100\text{mA}$	MAX.		10	20	mA	
dv/dt	$V_D = V_{DRM}$ Gate Open $T_j = 100^\circ\text{C}$	400V	TYP.	30	40	V/ μs	
		600V		20	30		
$(dv/dt)c$	$(di/dt)c = 4.3 \text{ A/ms}$ $T_j = 110^\circ\text{C}$	TYP.		2	2	V/ μs	
t_{gt}	$I_G = 100\text{mA}$ $PW = 15\mu\text{s}$ $I_T = 11.3 \text{ A(pk)}$	TYP.		3.0	3.2	μs	

Note: xx = voltage, x = package, y = sensitivity

Electrical Characteristics ($T_J = 25^\circ\text{C}$, unless otherwise specified) — Standard Triac

Symbol	Test Conditions	Quadrant		Qxx80x4	Qxx80x5	Unit
I_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III IV	MAX. TYP.	25 50	50 75	mA
V_{GT}		I - II - III	MAX.	1.3		V
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 k\Omega$ $T_J = 125^\circ\text{C}$	ALL	MIN.	0.2		V
I_H	$I_T = 200\text{mA}$		MAX.	50	50	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_J = 125^\circ\text{C}$	400V	MIN.	150		V/ μs
		600V			125	
		800V			100	
		1000V			80	
(dv/dt)c	(di/dt)c = 4.3 A/ms $T_J = 125^\circ\text{C}$		TYP.	4	4	V/ μs
t_{gt}	$I_G = 100\text{mA}$ PW = 15 μs $I_T = 11.3 \text{A(pk)}$		TYP.	3.0	3.0	μs

Electrical Characteristics ($T_J = 25^\circ\text{C}$, unless otherwise specified) — Alternistor Triac (3 Quadrants)

Symbol	Test Conditions	Quadrant		Qxx08xH3	Qxx08xH4	Unit
I_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III	MAX.	10	35	mA
V_{GT}		I - II - III	MAX.		1.3	
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 k\Omega$ $T_J = 125^\circ\text{C}$	I - II - III	MIN.		0.2	V
I_H	$I_T = 100\text{mA}$		MAX.		15	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_J = 125^\circ\text{C}$	Qxx08LHy / Qxx08RHy / Qxx08NHy	MIN.	400V	75	400
				600V	50	300
				800V		200
				1000V		100
		Qxx08VHy / Qxx08DHy	MIN.	400V	75	450
				600V	50	350
				800V		250
				1000V		150
(dv/dt)c	(di/dt)c = 4.3 A/ms $T_J = 125^\circ\text{C}$	MIN.		20	25	V/ μs
t_{gt}	$I_G = 100\text{mA}$ PW = 15 μs $I_T = 11.3 \text{A(pk)}$	TYP.		4.0	4.0	μs

Note : xx = voltage, x = package, y = sensitivity

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Static Characteristics

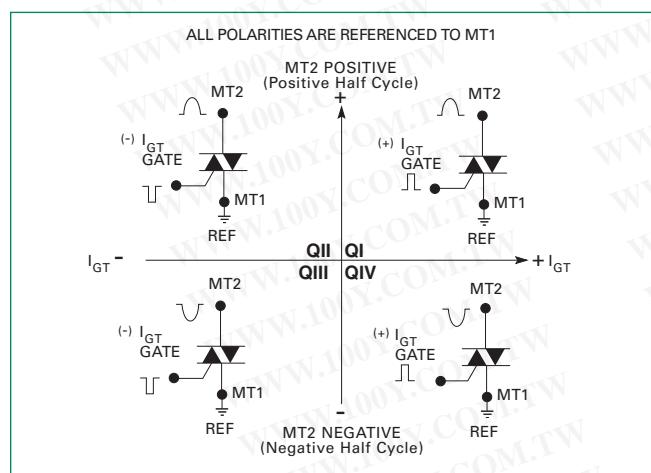
Symbol	Test Conditions				Value	Unit
V_{TM}	$I_{TM} = 11.3A$ $t_p = 380\ \mu s$ $V_{DRM} = V_{RRM}$	Lxx08xy	$T_J = 25^\circ C$	400 - 600V	MAX.	1.60
I_{DRM}			$T_J = 110^\circ C$	400 - 600V		20 μA
I_{RRM}		Qxx08xy	$T_J = 25^\circ C$	400 - 1000V		0.5 mA
			$T_J = 125^\circ C$	400 - 800V		50 μA
		Qxx08xHy	$T_J = 100^\circ C$	1000V		2 mA
			$T_J = 25^\circ C$	400 - 800V		3 mA
				1000V		10 μA
			$T_J = 125^\circ C$	400 - 800V		20 μA
			$T_J = 100^\circ C$	1000V		2 mA
						3 mA

Thermal Resistances

Symbol	Parameter	Value	Unit
$R_{\theta(J-C)}$	Junction to case (AC)	L/Qxx08Ryy / L/Qxx08Nyy	$^\circ C/W$
		L/Qxx08Lyy	
		L/Qxx08Vyy	
$R_{\theta(J-A)}$	Junction to ambient	L/Qxx08Ryy	$^\circ C/W$
		L/Qxx08Lyy	
		L/Qxx08Vyy	

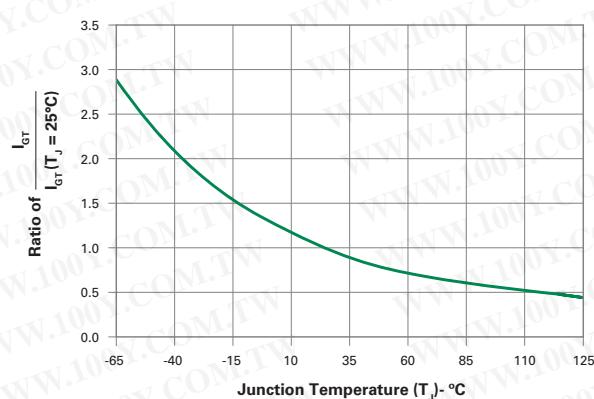
Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

Figure 1: Definition of Quadrants



Note: Alternistors will not operate in QIV

Figure 2: Normalized DC Gate Trigger Current for All Quadrants vs. Junction Temperature



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Figure 3: Normalized DC Holding Current vs. Junction Temperature

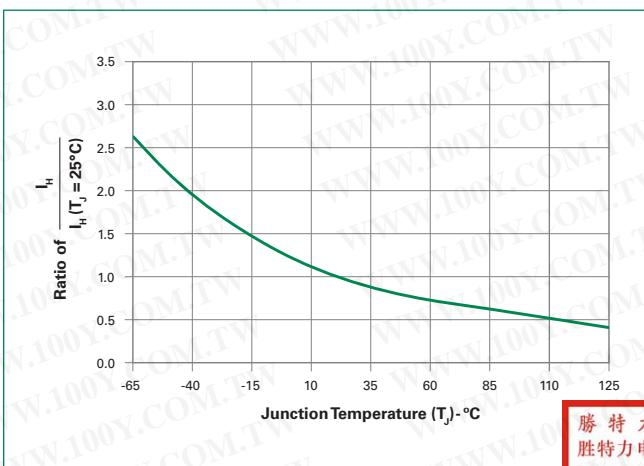


Figure 4: Normalized DC Gate Trigger Voltage for All Quadrants vs. Junction Temperature

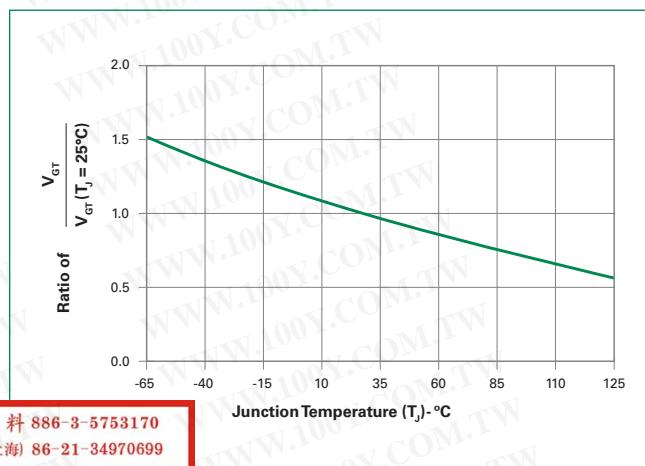


Figure 5: Power Dissipation (Typical) vs. RMS On-State Current

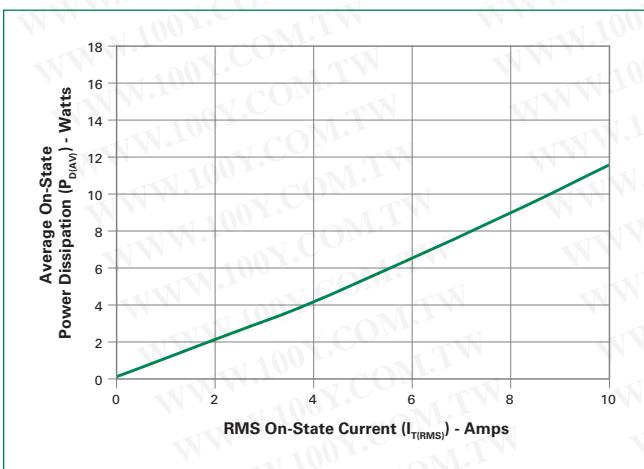


Figure 6: Maximum Allowable Case Temperature vs. On-State Current (Sensitive Triac)

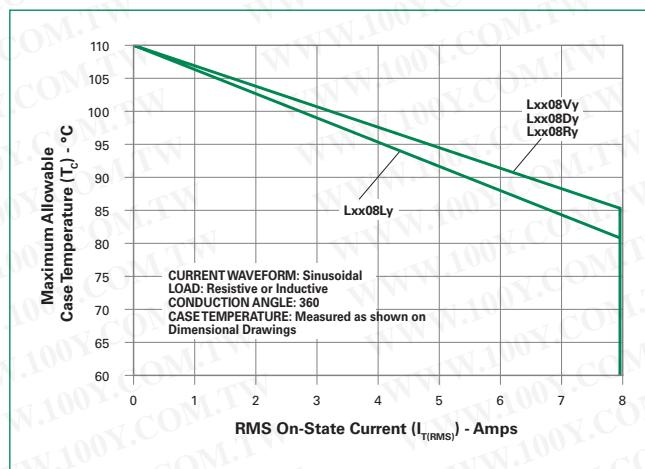


Figure 7: Maximum Allowable Case Temperature vs. On-State Current (Standard / Alternistor Triac)

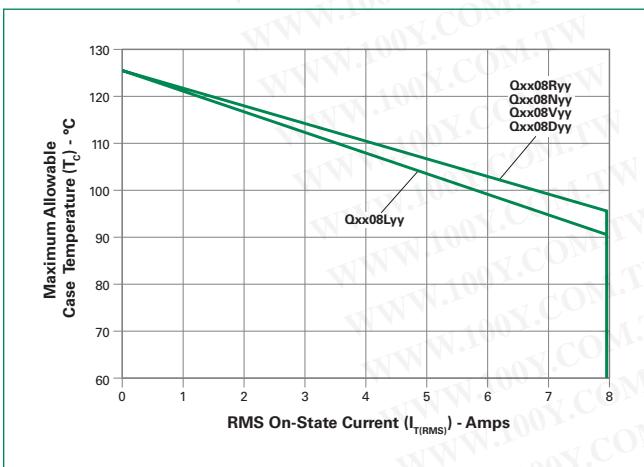
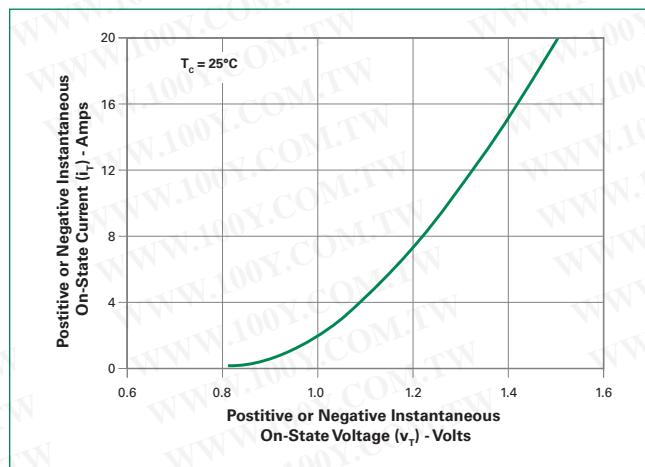


Figure 8: On-State Current vs. On-State Voltage (Typical)



Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

Figure 9: Maximum Allowable Ambient Temperature vs. On-State Current

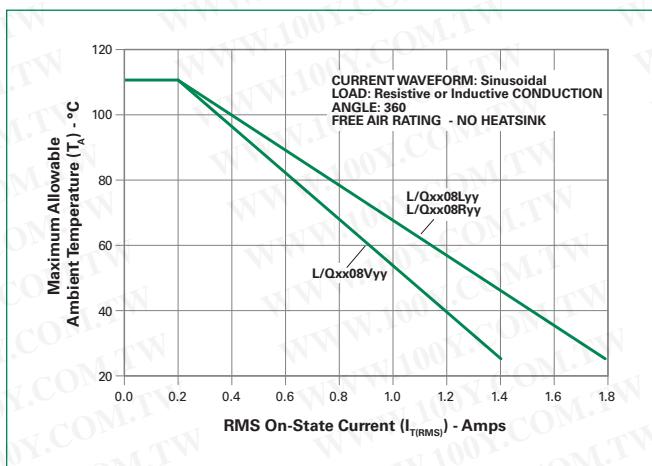
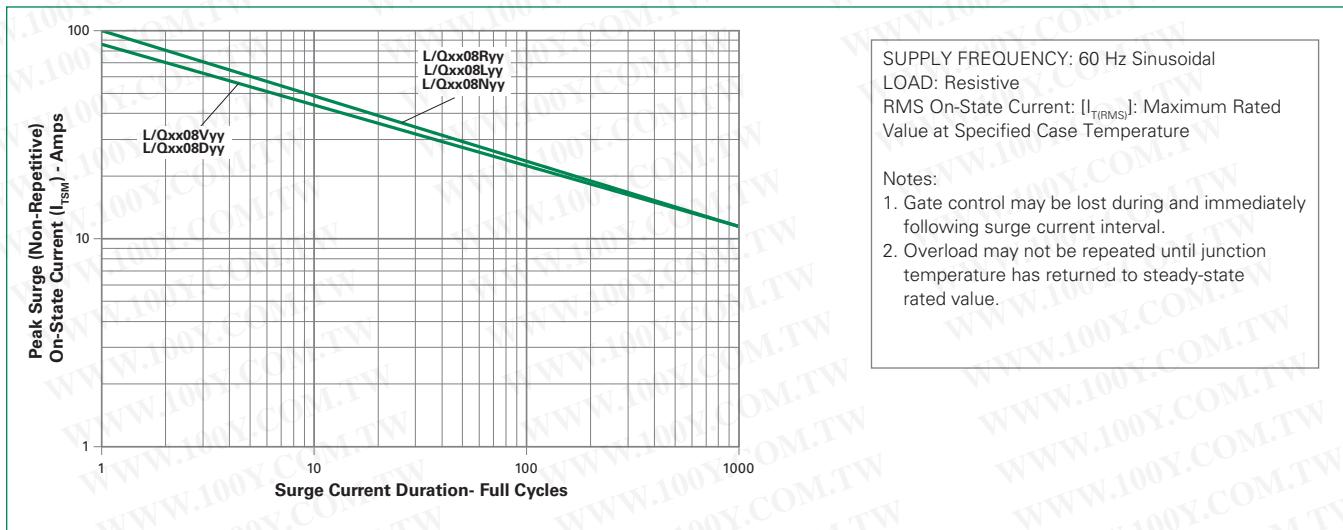


Figure 10: Surge Peak On-State Current vs. Number of Cycles

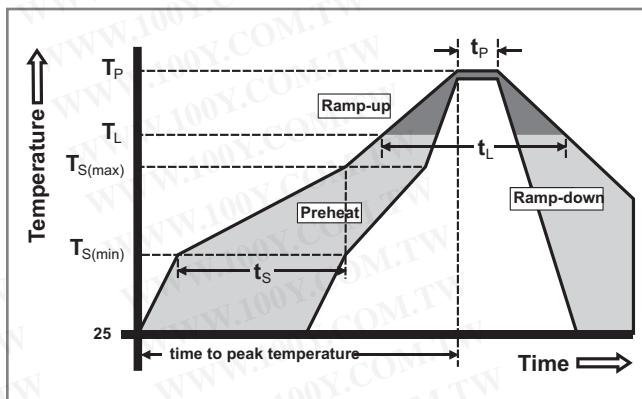


Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

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Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
Reflow	$T_{S(max)}$ to T_L - Ramp-up Rate	5°C/second max
	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		280°C



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Physical Specifications

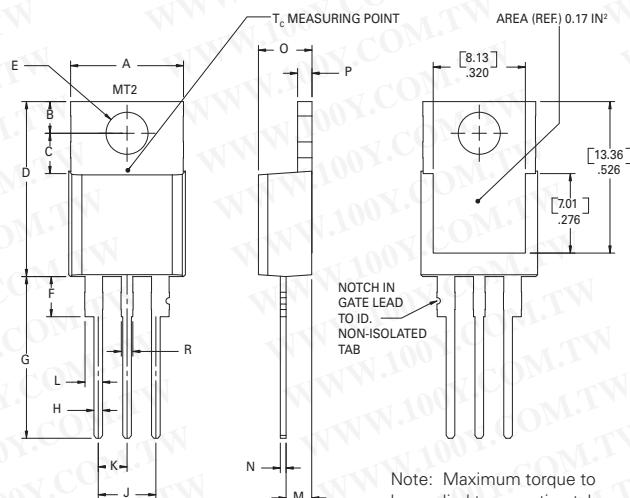
Terminal Finish	100% Matte Tin-plated
Body Material	UL recognized epoxy meeting flammability classification 94V-0
Terminal Material	Copper Alloy

Design Considerations

Careful selection of the correct device for the application's operating parameters and environment will go a long way toward extending the operating life of the Thyristor. Good design practice should limit the maximum continuous current through the main terminals to 75% of the device rating. Other ways to ensure long life for a power discrete semiconductor are proper heat sinking and selection of voltage ratings for worst case conditions. Overheating, overvoltage (including dv/dt), and surge currents are the main killers of semiconductors. Correct mounting, soldering, and forming of the leads also help protect against component damage.

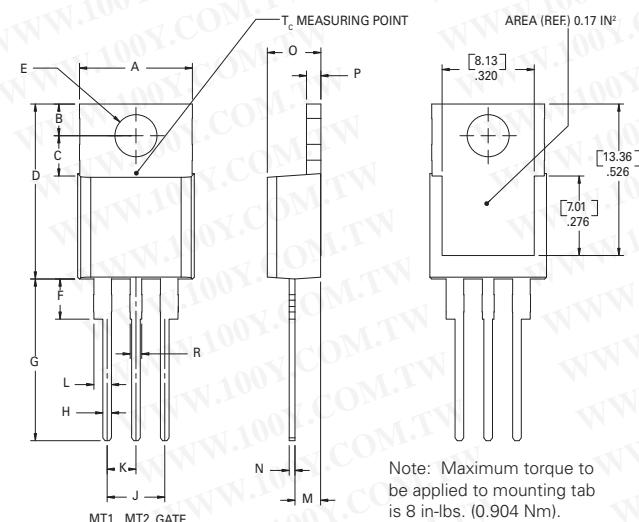
Environmental Specifications

Test	Specifications and Conditions
AC Blocking (V_{DRM})	MIL-STD-750, M-1040, Cond A Applied Peak AC voltage @ 125°C for 1008 hours
Temperature Cycling	MIL-STD-750, M-1051, 100 cycles; -40°C to +150°C; 15-min dwell-time
Temperature/Humidity	EIA / JEDEC, JESD22-A101 1008 hours; 320V - DC: 85°C; 85% rel humidity
High Temp Storage	MIL-STD-750, M-1031, 1008 hours; 150°C
Low-Temp Storage	1008 hours; -40°C
Thermal Shock	MIL-STD-750, M-1056 10 cycles; 0°C to 100°C; 5-min dwell-time at each temperature; 10 sec (max) transfer time between temperature
Autoclave	EIA / JEDEC, JESD22-A102 168 hours (121°C at 2 ATMs) and 100% R/H
Resistance to Solder Heat	MIL-STD-750 Method 2031
Solderability	ANSI/J-STD-002, category 3, Test A
Lead Bend	MIL-STD-750, M-2036 Cond E

Dimensions — TO-220AB (R-Package) — Non-Isolated Mounting Tab Common with Center Lead


Note: Maximum torque to be applied to mounting tab is 8 in-lbs. (0.904 Nm).

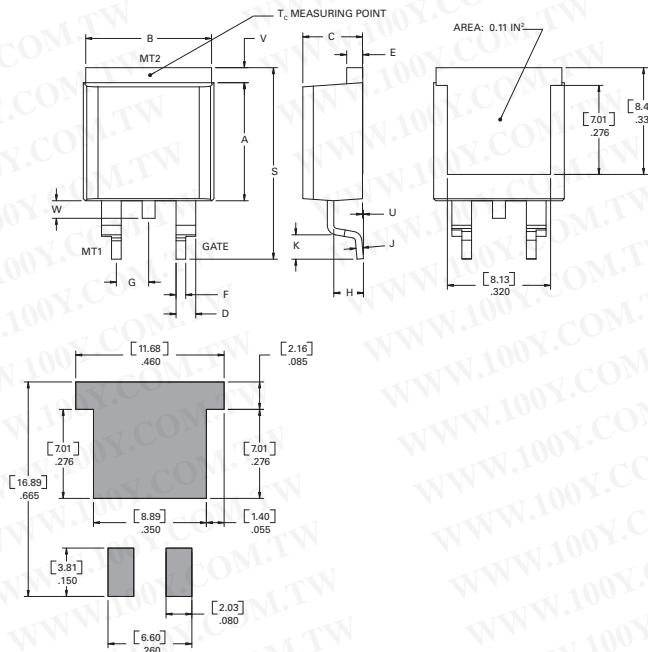
Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

Dimensions — TO-220AB (L-Package) — Isolated Mounting Tab


Note: Maximum torque to be applied to mounting tab is 8 in-lbs. (0.904 Nm).

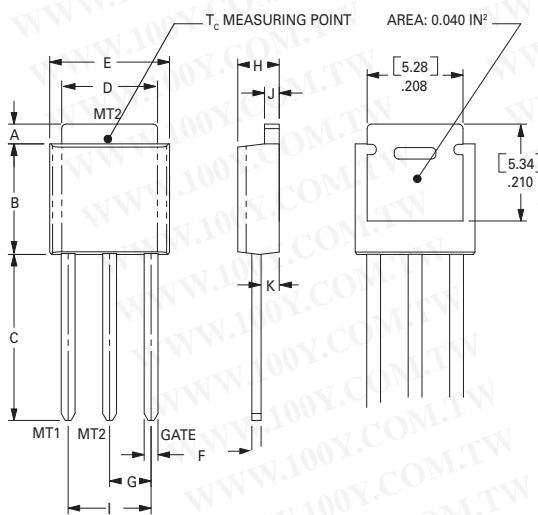
Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

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Dimensions — TO-263AA (N-Package) — D²-PAK Surface Mount

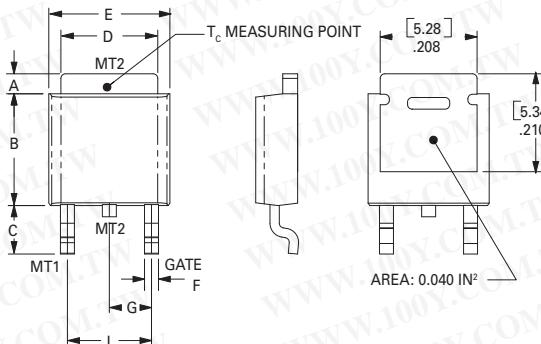
Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.360	0.370	9.14	9.40
B	0.380	0.420	9.65	10.67
C	0.178	0.188	4.52	4.78
D	0.025	0.035	0.64	0.89
E	0.045	0.060	1.14	1.52
F	0.060	0.075	1.52	1.91
G	0.095	0.105	2.41	2.67
H	0.092	0.102	2.34	2.59
J	0.018	0.024	0.46	0.61
K	0.090	0.110	2.29	2.79
S	0.590	0.625	14.99	15.88
V	0.035	0.045	0.89	1.14
U	0.002	0.010	0.05	0.25
W	0.040	0.070	1.02	1.78

Dimensions — TO-251AA (V-Package) — V-PAK Through Hole

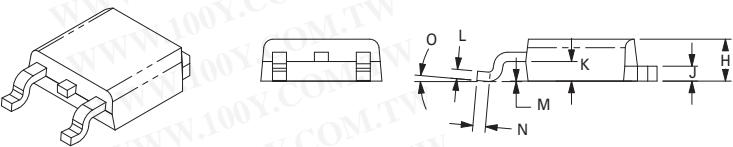
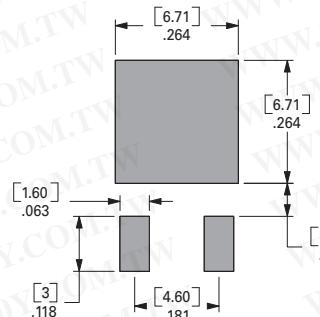


Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.040	0.050	1.02	1.27
B	0.235	0.245	5.97	6.22
C	0.350	0.375	8.89	9.53
D	0.205	0.213	5.21	5.41
E	0.255	0.265	6.48	6.73
F	0.027	0.033	0.69	0.84
G	0.087	0.093	2.21	2.36
H	0.085	0.095	2.16	2.41
I	0.176	0.184	4.47	4.67
J	0.018	0.023	0.46	0.58
K	0.038	0.044	0.97	1.12
L	0.018	0.023	0.46	0.58

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Dimensions — TO-252AA (D-Package) — D-PAK Surface Mount


Pad Layout for TO-252AA (D-Package)



Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.040	0.050	1.02	1.27
B	0.235	0.245	5.97	6.22
C	0.106	0.113	2.69	2.87
D	0.205	0.213	5.21	5.41
E	0.255	0.265	6.48	6.73
F	0.027	0.033	0.69	0.84
G	0.087	0.093	2.21	2.36
H	0.085	0.095	2.16	2.41
I	0.176	0.184	4.47	4.67
J	0.018	0.023	0.46	0.58
K	0.038	0.044	0.97	1.12
L	0.018	0.023	0.46	0.58
M	0.000	0.004	0.00	0.10
N	0.021	0.027	0.53	0.69
O	0°	5°	0°	5°

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Product Selector

Part Number	Voltage (xx)				Gate Sensitivity Quadrants		Type	Package
	400V	600V	800V	1000V	I - II - III	IV		
Lxx08L6	X	X			5 mA	10 mA	Sensitive Triac	TO-220L
Lxx08D6	X	X			5 mA	10 mA	Sensitive Triac	TO-252 D-PAK
Lxx08R6	X	X			5mA	10mA	Sensitive Triac	TO-220R
Lxx08V6	X	X			5 mA	10 mA	Sensitive Triac	TO-251 V-PAK
Lxx08L8	X	X			10 mA	20 mA	Sensitive Triac	TO-220L
Lxx08D8	X	X			10 mA	20 mA	Sensitive Triac	TO-252 D-PAK
Lxx08R8	X	X			10mA	20mA	Sensitive Triac	TO-220R
Lxx08V8	X	X			10 mA	20 mA	Sensitive Triac	TO-251 V-PAK
Qxx08RH3	X	X			10 mA		Alternistor Triac	TO-220R
Qxx08VH3	X	X			10 mA		Alternistor Triac	TO-251 V-PAK
Qxx08DH3	X	X			10 mA		Alternistor Triac	TO-252 D-PAK
Qxx08L4	X				25 mA		Triac	TO-220L
Qxx08R4	X				25 mA		Triac	TO-220R
Qxx08N4	X				25 mA		Triac	TO-263 D ² -PAK
Qxx08LH4	X	X	X	X	35 mA		Alternistor Triac	TO-220L
Qxx08RH4	X	X	X	X	35 mA		Alternistor Triac	TO-220R
Qxx08VH4	X	X	X	X	35 mA		Alternistor Triac	TO-251 V-PAK
Qxx08DH4	X	X	X	X	35 mA		Alternistor Triac	TO-252 D-PAK
Qxx08NH4	X	X	X	X	35 mA		Alternistor Triac	TO-263 D ² -PAK
Qxx08L5		X	X	X	50 mA		Triac	TO-220L
Qxx08R5		X	X	X	50 mA		Triac	TO-220R
Qxx08N5		X	X	X	50 mA		Triac	TO-263 D ² -PAK

Packing Options

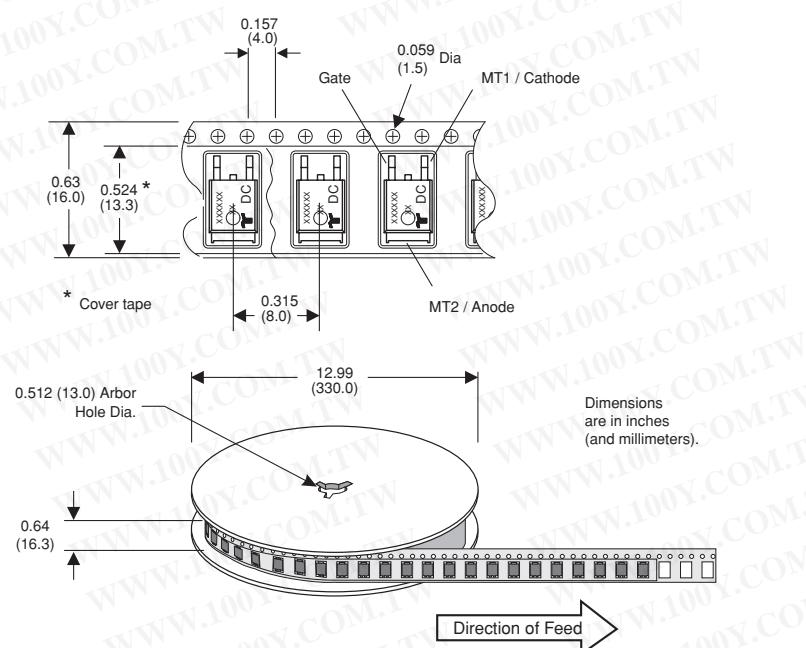
Part Number	Marking	Weight	Packing Mode	Base Quantity
L/Qxx08L/Ryy	L/Qxx08L/Ryy	2.2 g	Bulk	500
L/Qxx08L/RyyTP	L/Qxx08L/Ryy	2.2 g	Tube Pack	500
Qxx08NyyTP	Qxx08Nyy	1.6 g	Tube	500
Qxx08NyyRP	Qxx08Nyy	1.6 g	Embossed Carrier	500
L/Qxx08DyyTP	L/Qxx08Dyy	0.3 g	Tube	750
L/Qxx08DyyRP	L/Qxx08Dyy	0.3 g	Embossed Carrier	2500
L/Qxx08VyyTP	L/Qxx08Vyy	0.4 g	Tube	750

Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

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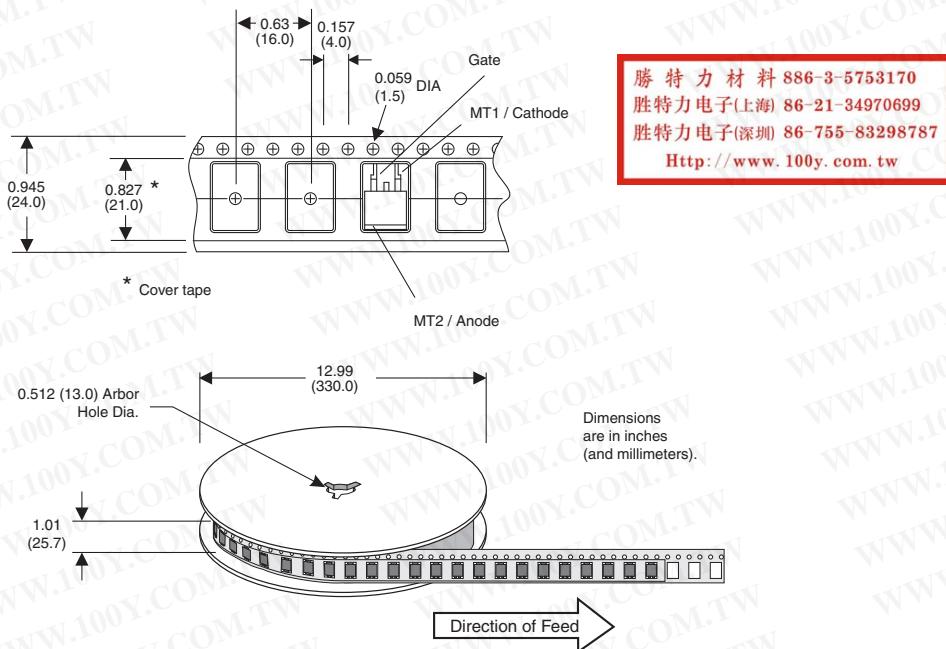
TO-252 Embossed Carrier Reel Pack (RP) Specifications

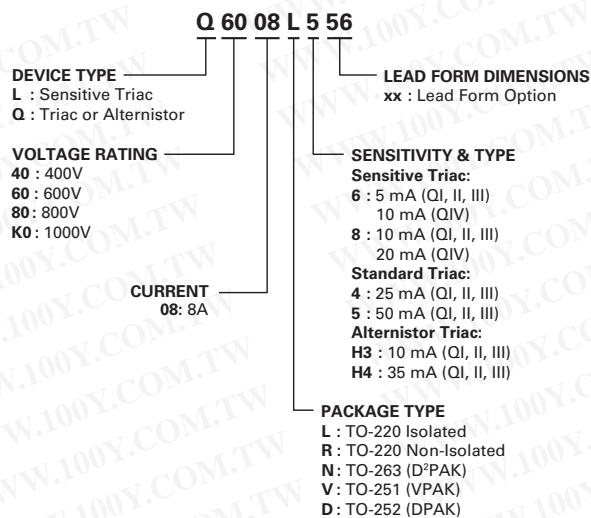
Meets all EIA-481-2 Standards



TO-263 Embossed Carrier Reel Pack (RP) Specifications

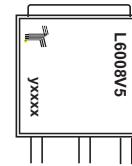
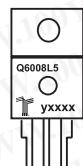
Meets all EIA-481-2 Standards



Part Numbering System**Part Marking System**

TO-220 AB – (R & L Packages)
TO-263 AA – (N Package)

TO-252AA – (D Package)
TO-251AA – (V Package)



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