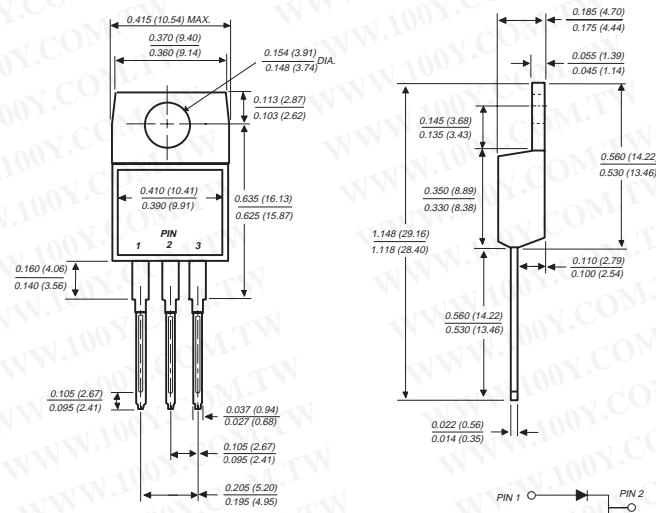


MBR2035CT THRU MBR2060CT

SCHOTTKY RECTIFIER

Reverse Voltage - 35 to 60 Volts Forward Current - 20.0 Amperes

TO-220AB



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case



MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic

Terminals: Leads solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

Mounting Torque: 5 in. - lbs.max.

Weight: 0.08 ounce, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	MBR2035CT	MBR2045CT	MBR2050CT	MBR2060CT	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	Volts
Maximum working peak reverse voltage	V _{RWM}	35	45	50	60	Volts
Maximum DC blocking voltage	V _{DC}	35	45	50	60	Volts
Maximum average forward rectified current at T _C =135°C	I _(AV)			20.0		Amps
Peak repetitive forward current per leg at T _C =135°C (rated V _R , sq. wave 2.0 KHz)	I _{FRM}			20.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			150.0		Amps
Peak repetitive reverse surge current (NOTE 1)	I _{RRM}		1.0		0.5	Amps
Maximum instantaneous forward voltage per leg at (NOTE 2) I _F =10A, T _C =25°C I _F =10A, T _C =125°C I _F =20A, T _C =25°C I _F =20A, T _C =125°C	V _F		— 0.57 0.84 0.72		0.80 0.70 0.95 0.85	Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg T _C =25°C T _C =125°C	I _R		0.1 15.0		0.15 150.0	mA
Voltage rate of change, (rated V _R)	dv/dt			10,000		V/us
Typical thermal resistance per leg (NOTE 3)	R _{θJC}			2.0		°C/W
Operating junction temperature range	T _J			-65 to +150		°C
Storage temperature range	T _{STG}			-65 to +175		°C

NOTES:

(1) 2.0μs pulse width, f=1.0KHz

(2) Pulse test: 300μs pulse width, 1% duty cycle

勝特力材料 886-3-5753170

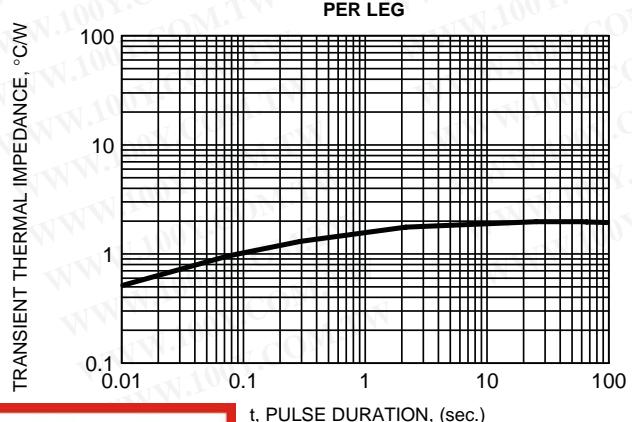
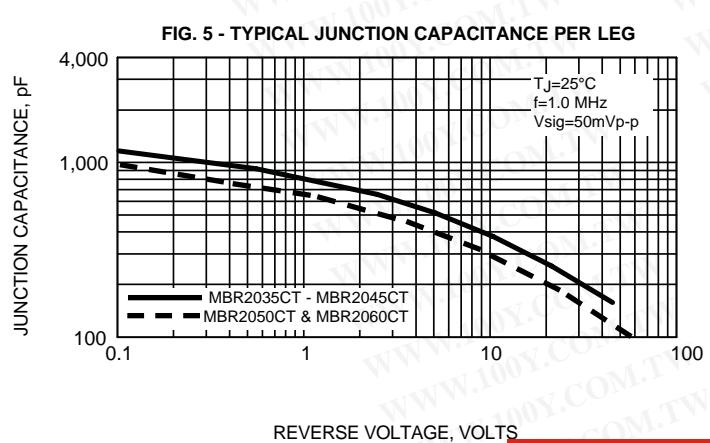
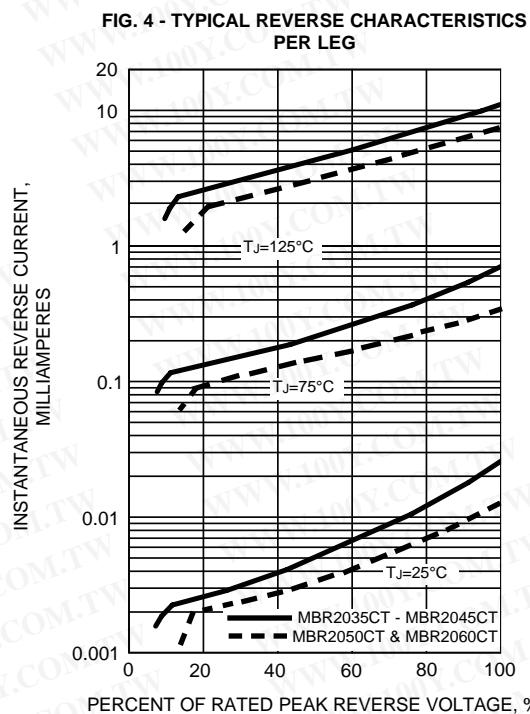
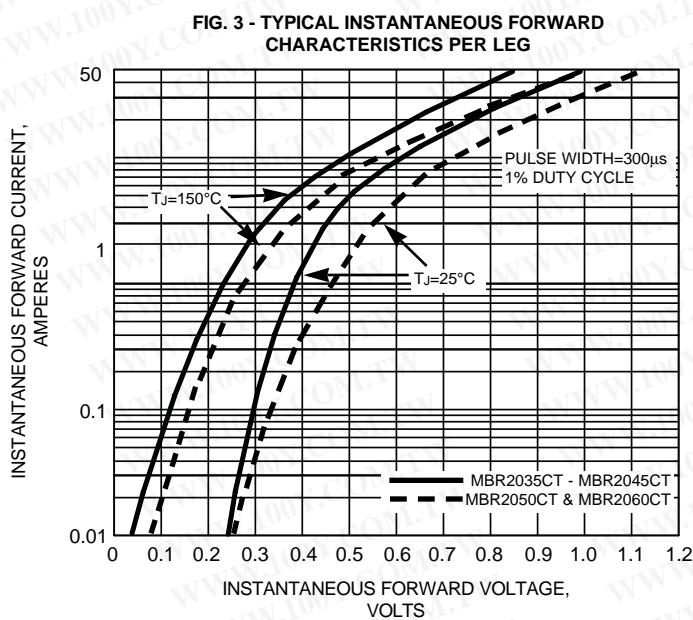
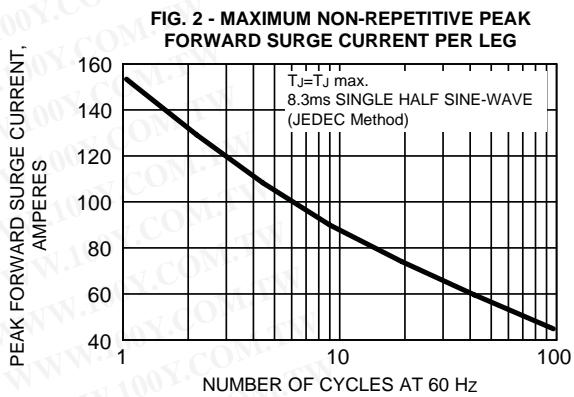
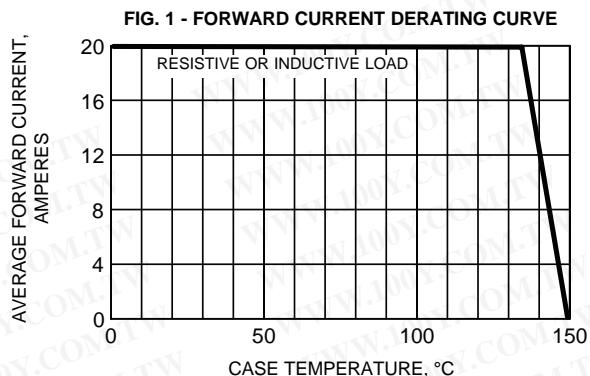
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RATINGS AND CHARACTERISTIC CURVES MBR2035CT THRU MBR2060CT



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