



Micro Commercial Components

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

DL5817 THRU DL5819

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- High Current Capability
- Surface Mount Applications
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DL5817	---	20V	14V	20V
DL5818	---	30V	21V	30V
DL5819	---	40V	28V	40V

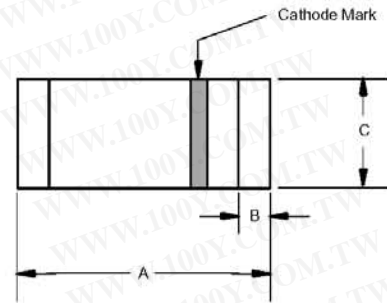
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.45V .55V .60V	$I_{FM} = 1.0\text{A};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA	$T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

1 Amp Schottky Barrier Rectifier 20 to 40 Volts

MELF



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	MIN	MAX	MIN	MAX	
A	.190	.205	4.80	5.20	
B	—	.022	—	.55	Nominal
C	.095	.105	2.40	2.67	∅

SUGGESTED SOLDER PAD LAYOUT

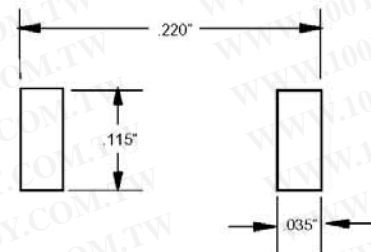
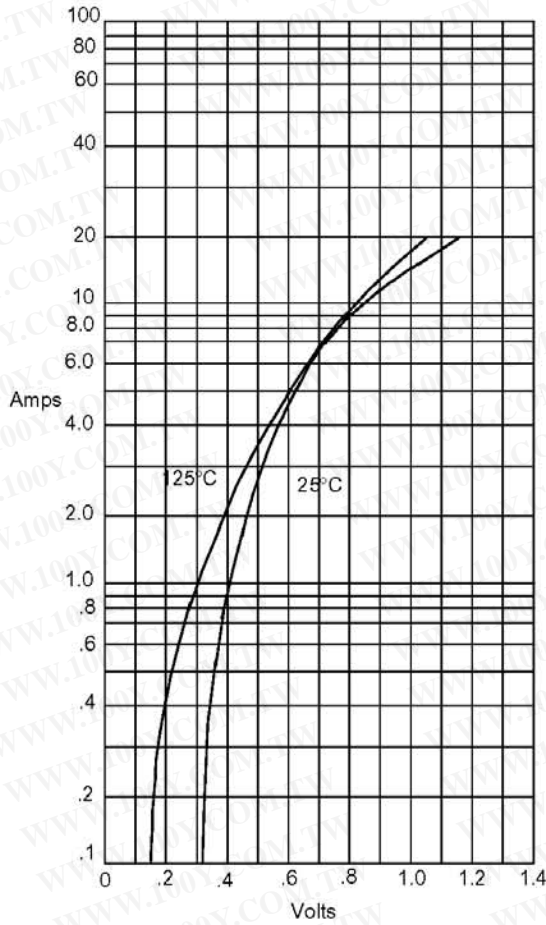
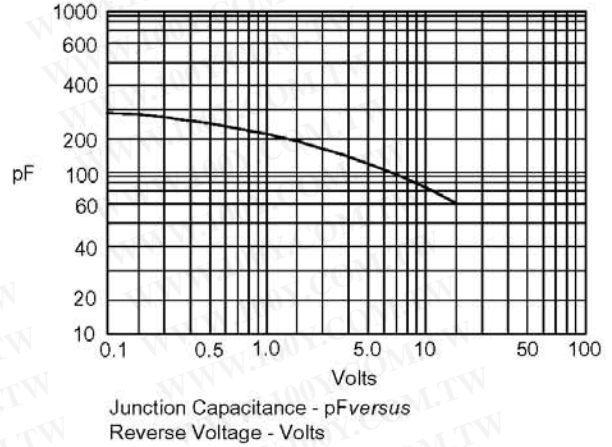


Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

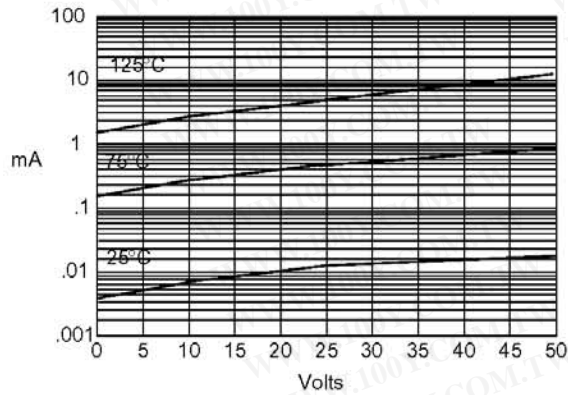
Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

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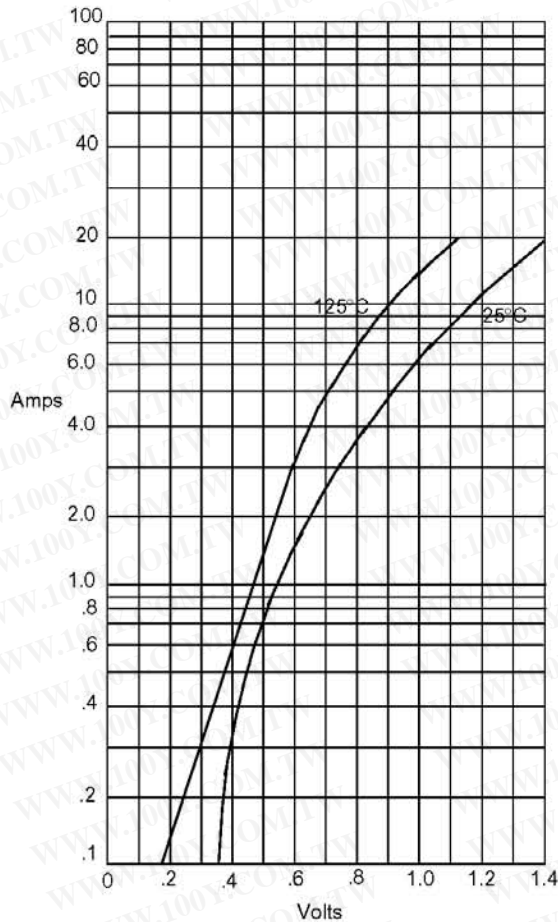
Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

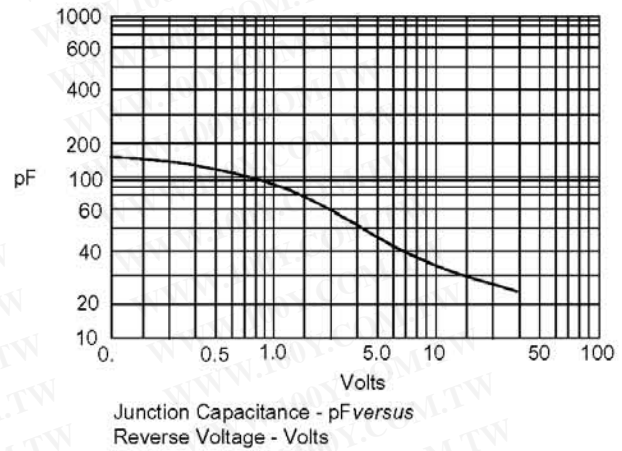
DL5818 thru DL5819

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

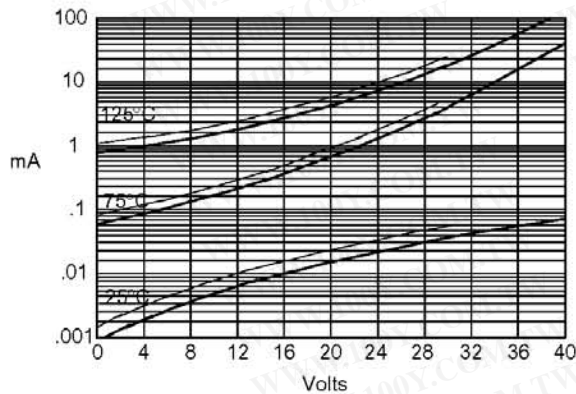
Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

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Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

5818 ———
5819 ———



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