



Micro Commercial Components



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DL5817 THRU DL5819

1 Amp Schottky Barrier Rectifier 20 to 40 Volts

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- High Current Capability
- Surface Mount Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

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

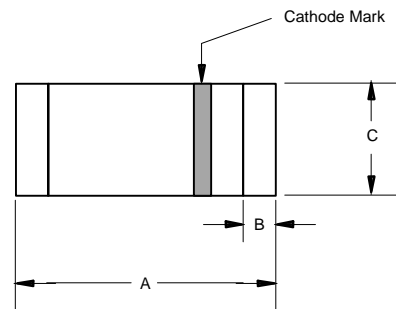
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	DL5817 .45V	$I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}^*$
		DL5818 .55V	
		DL5819 .60V	
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%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

MELF



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.190	.205	4.80	5.20	
B	---	.022	---	.55	Nominal
C	.095	.105	2.40	2.67	\varnothing

SUGGESTED SOLDER PAD LAYOUT

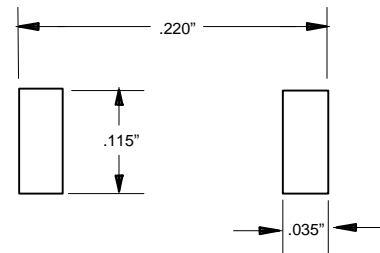
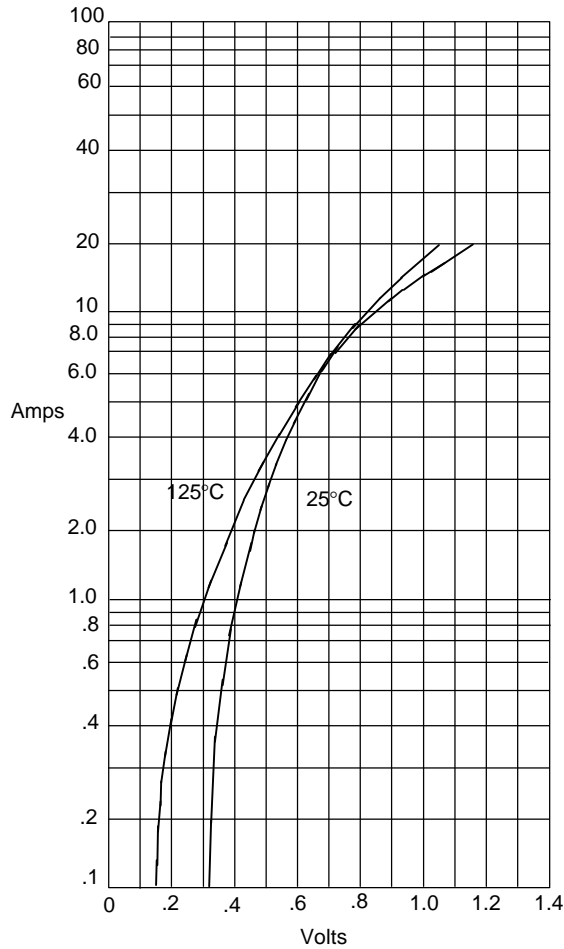
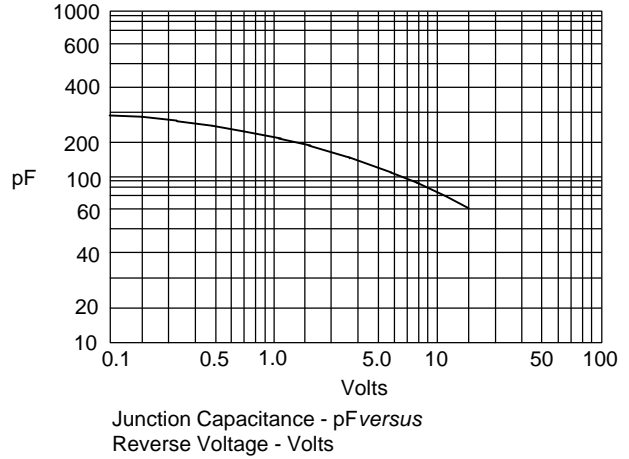


Figure 1
Typical Forward Characteristics



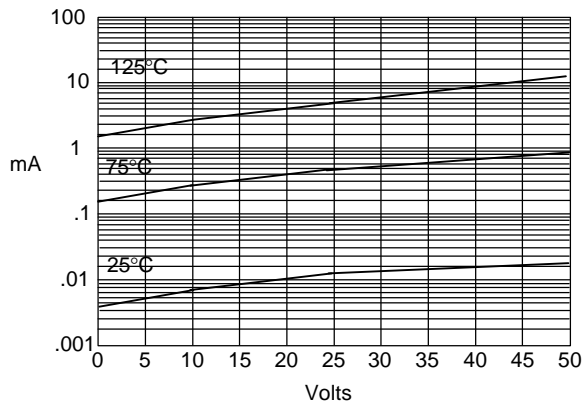
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

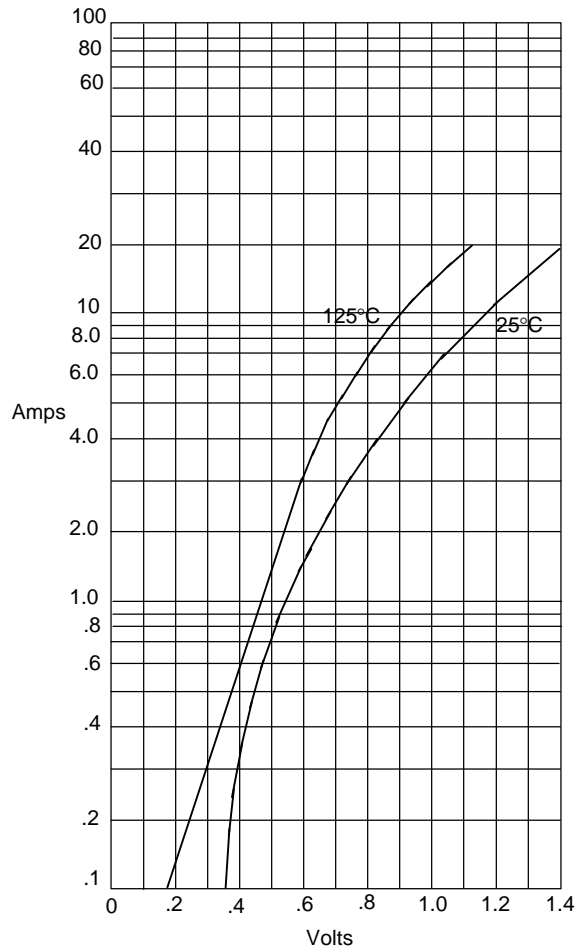
Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

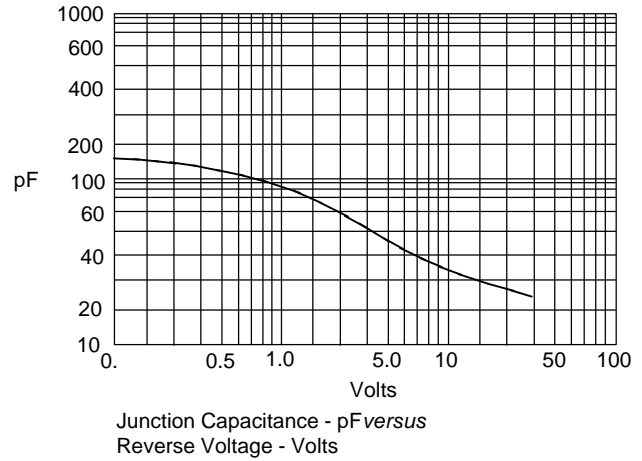
DL5818 thru DL5819

Figure 1
Typical Forward Characteristics



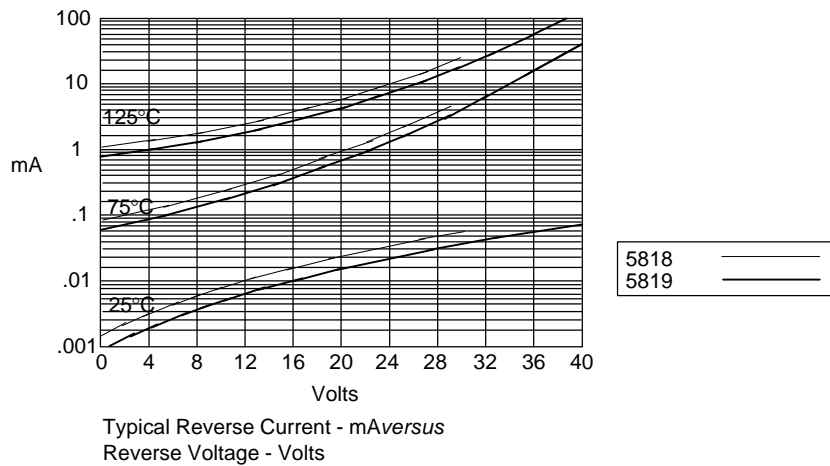
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

5818	—
5819	—



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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