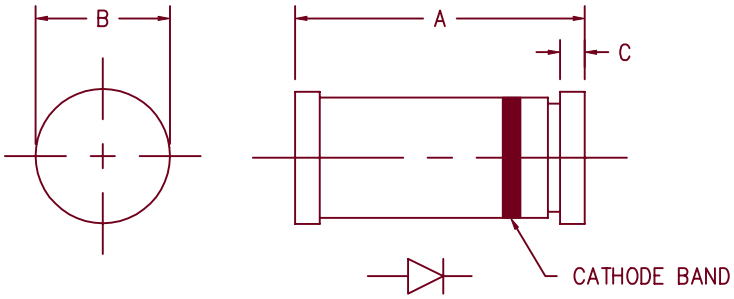
1 Amp Schottky Rectifier

DL5817 – DL5819



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.190	.205	4.83	5.20	
B	.094	.105	2.39	2.66	Dia.
C	---	.022	---	.55	

PLASTIC DO213AB

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
DL5817	20V	20V
DL5818	30V	30V
DL5819	40V	40V

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- High Reliability
- High Current Capability

Electrical Characteristics

		DL5817	DL5818	DL5819	
Average forward current	$I_{F(AV)}$	1A	1A	1A	
End Cap Temperature		130°C	125°C	125°C	Square wave, $R_{\theta JEC}$ = 45 C/W
Maximum surge current	I_{FSM}	50A	50A	50A	8.3ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM}	.36V	.39V	.39V	I_{FM} = 0.1A; T_J = 25°C *
Max peak forward voltage	V_{FM}	.45V	.55V	.60V	I_{FM} = 1.0A; T_J = 25°C *
Max peak forward voltage	V_{FM}	.65V	.85V	.90V	I_{FM} = 3.0A; T_J = 25°C *
Max peak reverse current	I_{RM}	1mA	1mA	1mA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J	105pF	50pF	50pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−65°C to 150°C
Operating junction temp range	T_J	−65°C to 150°C
Maximum thermal resistance	$R_{\theta JEC}$	45°C/W Junction to End Cap
Weight		.004 ounces (.012 grams) typical

10−2−01 Rev. IR

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DL5817

Figure 1
Typical Forward Characteristics

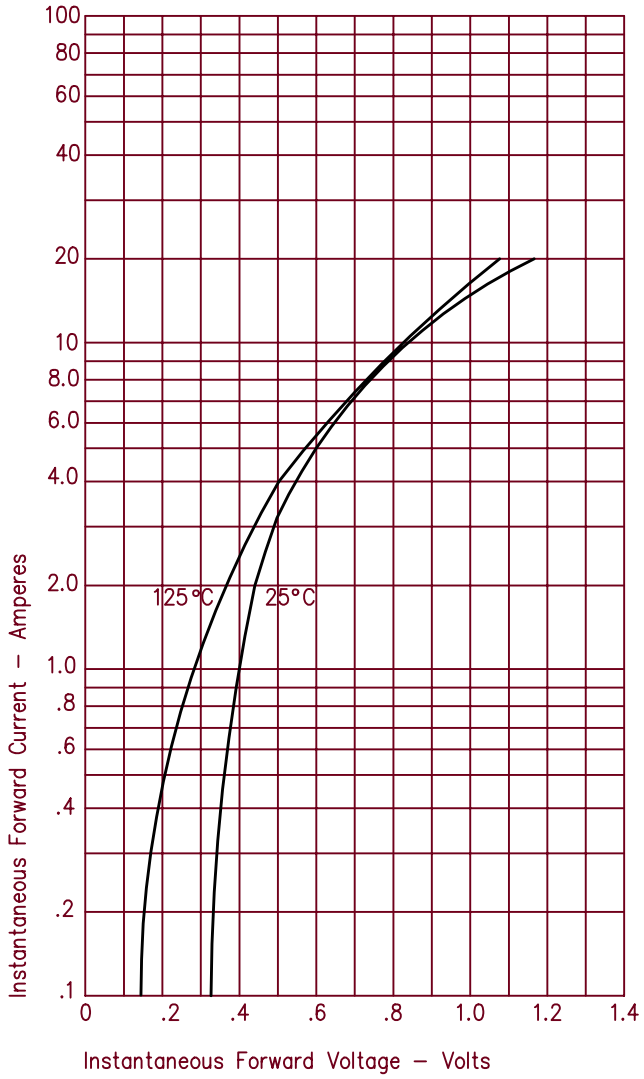


Figure 2
Typical Reverse Characteristics

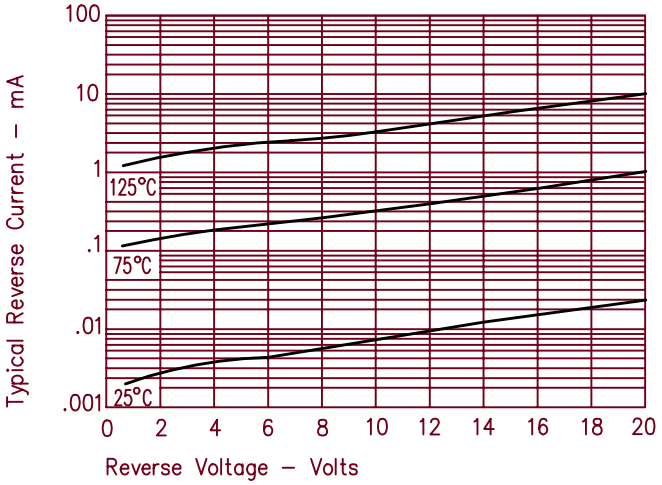
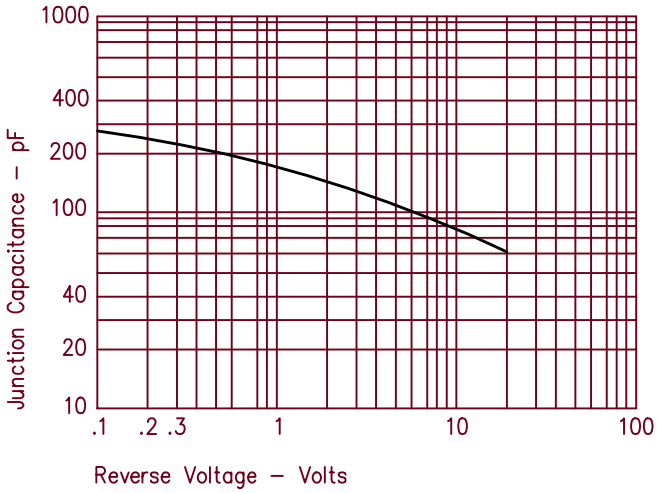


Figure 3
Typical Junction Capacitance



DL5818 & DL5819

Figure 1
Typical Forward Characteristics

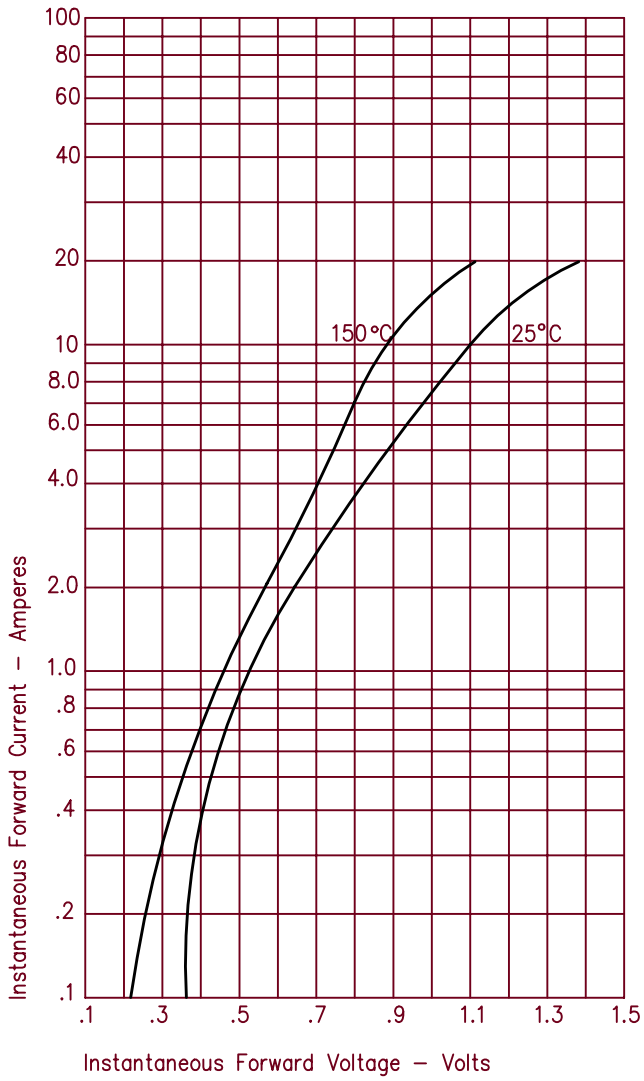


Figure 2
Typical Reverse Characteristics

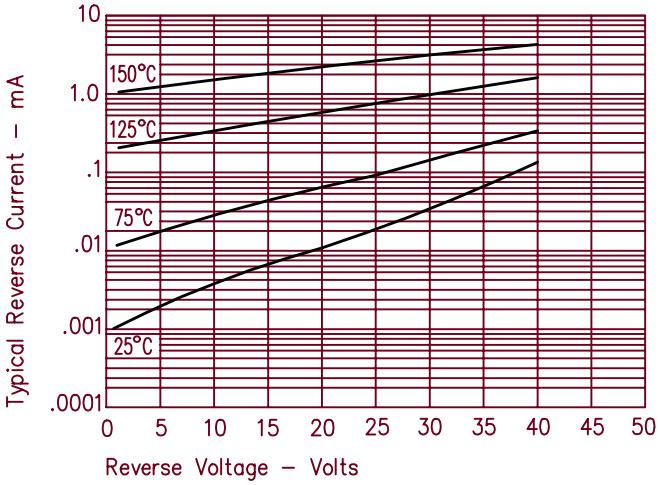


Figure 3
Typical Junction Capacitance