

Surface Mount Schottky Diodes

(Pb) Lead(Pb)-Free

Features:

- *Low Forward Voltage
- *Fast Switching
- *Low Switching Noise
- *Ideal for Surface Mounted Application

Mechanical Data:

- *Case : MINI-MELF Plastic Case (SOD-80)
- *Weight : Approx 0.15 gram

**SMALL SIGNAL
SCHOTTKY DIODES
1.0 AMPERES
20-60 VOLTS**



MINI-MELF

MINI-MELF Outline Dimensions

Unit:mm

www.DataSheet4U.com



MINI MELF		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50

MM17 thru MM106**Maximum Ratings and Electrical Characteristics**

Rating 25°C Ambient Temperature Unless Otherwise Specified.

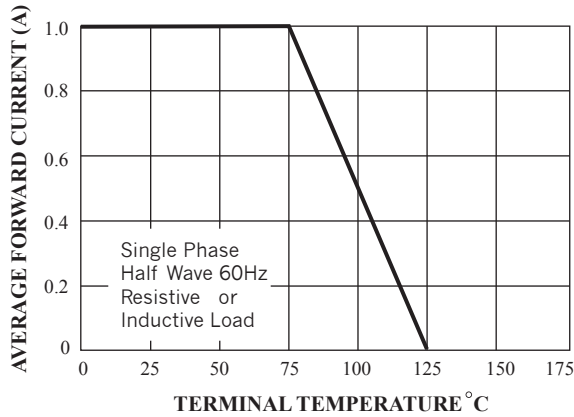
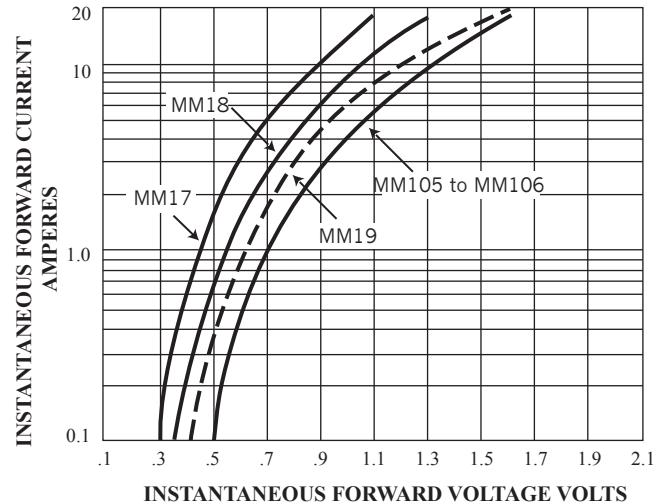
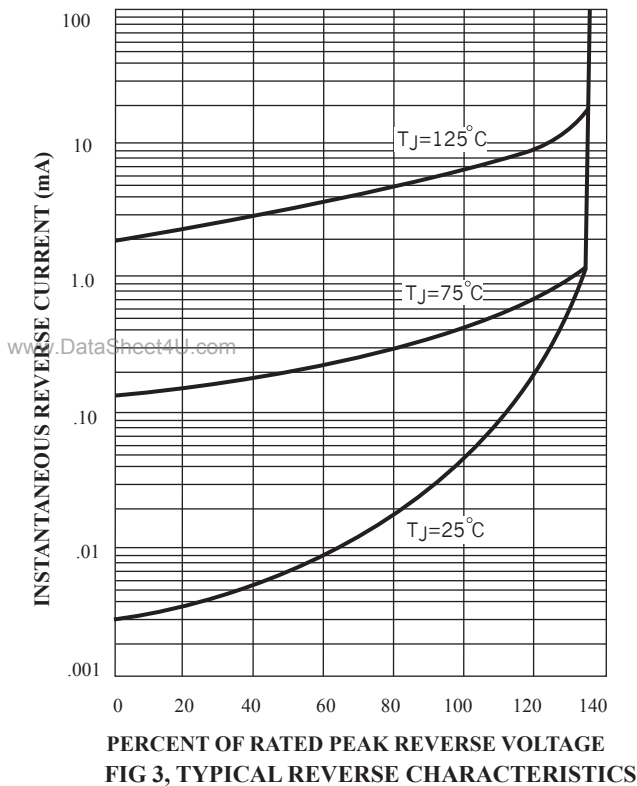
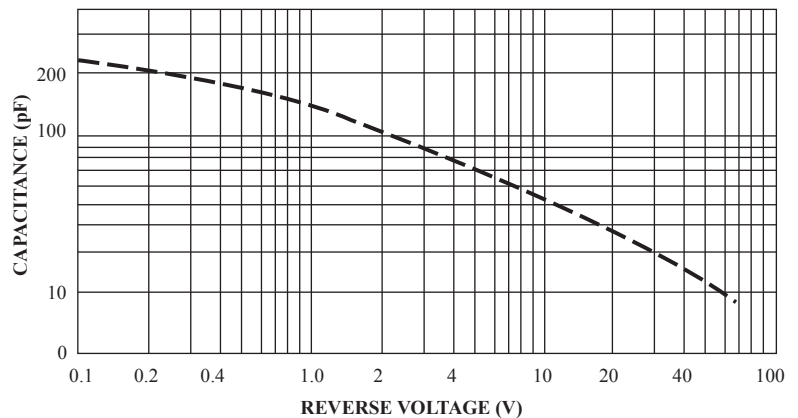
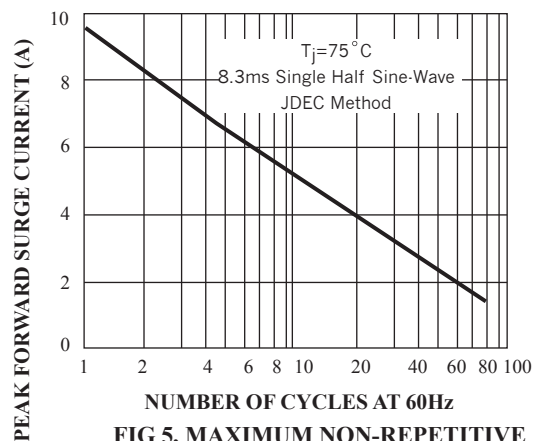
Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Characteristics	Symbol	MM17	MM18	MM19	MM105	MM106	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified Current @TC=75 °C	IF(AV)	1.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	10					A
Maximum Instantaneous At 1.0A DC	VF	0.45	0.55	0.60	0.7		V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=75°C	IR	0.5 10					mA
Typical Junction Capacitance (Note 1)	CJ	80					pF
Typical Thermal Resistance (Note 2)	RθJL	30					°C/W
Operating Temperature Range	TJ	-55 to+125					°C
Storage Temperature Range	TSTG	-55 to+150					°C

NOTES: 1. Measured at 1.0MHz applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to case.

MM17 thru MM106**RATING AND CHARACTERISTICS CURVE****FIG 1, FORWARD CURRENT DERATING CURVE****FIG 2, TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS****FIG 3, TYPICAL REVERSE CHARACTERISTICS****FIG 4, TYPICAL JUNCTION CAPACITANCE****FIG 5, MAXIMUM NON-REPETITIVE SURGE CURRENT**