



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

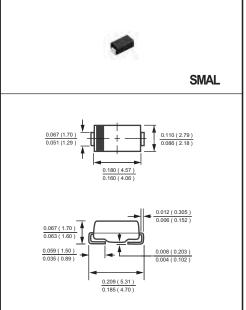
MECHANICAL DATA

Resistive or inductive load.

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	FM5817L	FM5818L	FM5819L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20 30		40	Volts
Maximum RMS Voltage	VRMS	14 21		28	Volts
Maximum DC Blocking Voltage	V _{DC}	20 30		40	Volts
Maximum Average Forward Rectified Current at $T_A=90^{\circ}C$	Io	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25			Amps
Typical Current Square Time	I ² T	2.5			A ² S
Typical Thermal Resistance (Note 3)	R _{0JA}	88			• C/W
Typical memai Resistance (Note 3)	R _{θJL}				
Typical Junction Capacitance (Note 1)	CJ	110			pF
Operating Temperature Range	TJ	150			° C
Storage Temperature Range	T _{STG}	-55 to + 150			۰C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FM5817L	FM5818L	FM5819L	UNITS	
Maximum Instantaneous Forward Voltage at 1.0/	VF	.45	.55	.60	Volts	
Maximum Instantaneous Forward Voltage at 3.1/	VF	.75	.875	.90	Volts	
Maximum Average Reverse Current	@T _A = 25°C	le le		mAmps		
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR		10		mAmps

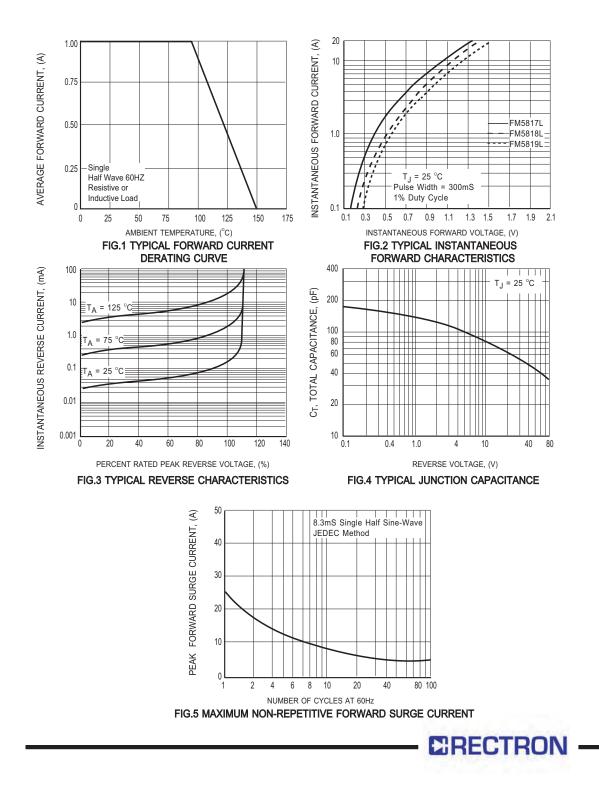
NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

"Fully ROHS compliant", "100% Sn plating (Pb-free)".
Also available in SMBL.

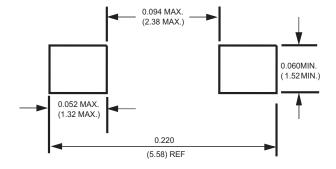
3. Thermal Resistance : Mounted on PCB.

2009-8 REV:A





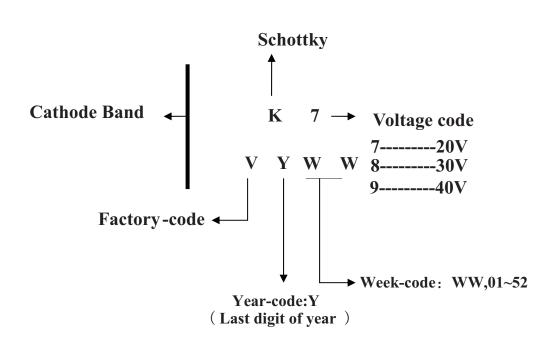
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA	-T	1,500	6,000			178	390*205*310	48,000	8.40
SMA	-W	5,000	10,000			330	360*355*360	80,000	14.20

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