

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIER**

VOLTAGE RANGE 100 Volts CURRENT 3.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction

MECHANICAL DATA

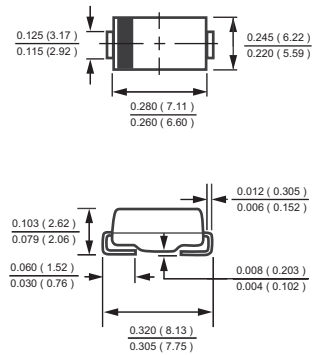
- * Epoxy: Device has UL flammability classification 94V-0
- * Mounting position: Any
- * Weight: 0.25 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



DO-214AB



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

RATINGS	SYMBOL	FM3H100	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	Volts
Maximum RMS Voltage	V_{RMS}	70	Volts
Maximum DC Blocking Voltage	V_{DC}	100	Volts
Maximum Average Forward Rectified Current at Lead Temperature	I_O	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	130	Amps
Typical Current Squared Time	I^2T	70.14	A^2S
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	11	$^{\circ}C/W$
Operating Temperature Range	T_J	-65 to + 175	$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 to + 175	$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	FM3H100	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	V_F	.79	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^{\circ}C$	50	μA
	@ $T_A = 125^{\circ}C$	5.0	mA

NOTES : 1. Thermal Resistance : Mounted on PCB.
2. * RoHS compliant*.

2023-12/23
REV:O

RATING AND CHARACTERISTICS CURVES (FM3H100)

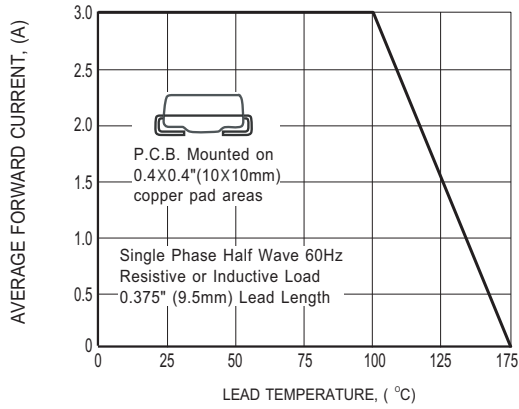


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

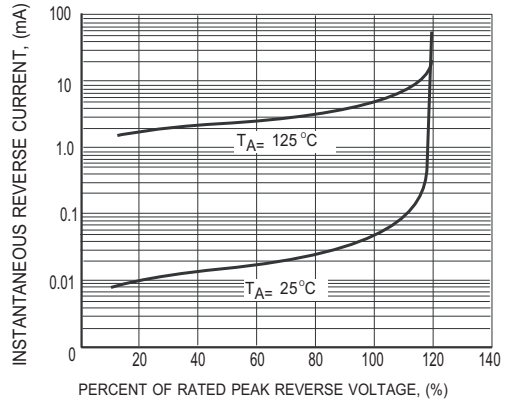


FIG.2 MAXIMUM REVERSE CHARACTERISTICS

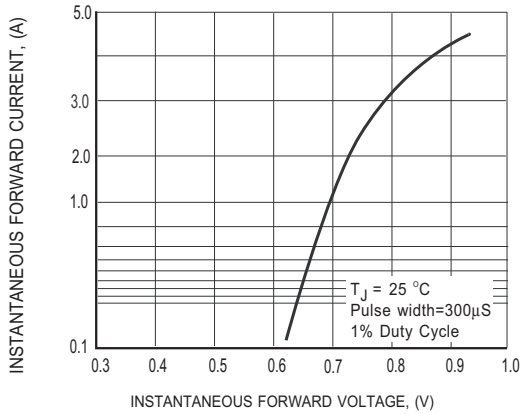


FIG.3 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

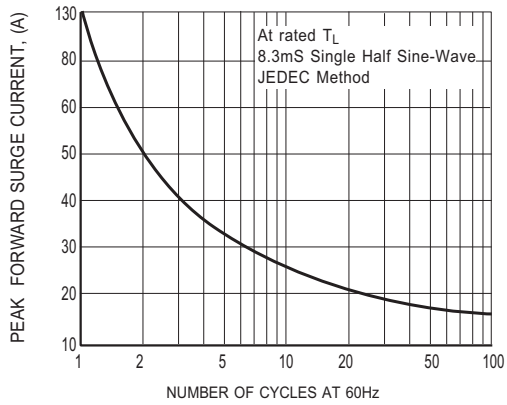
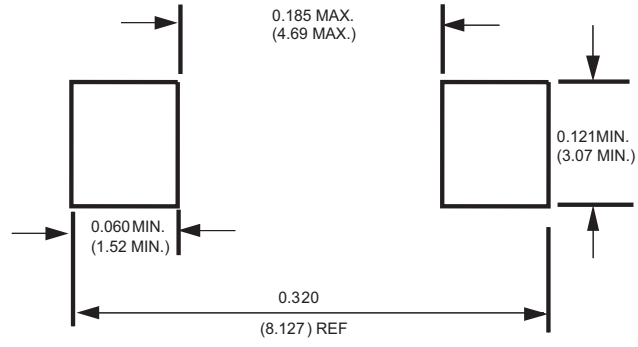


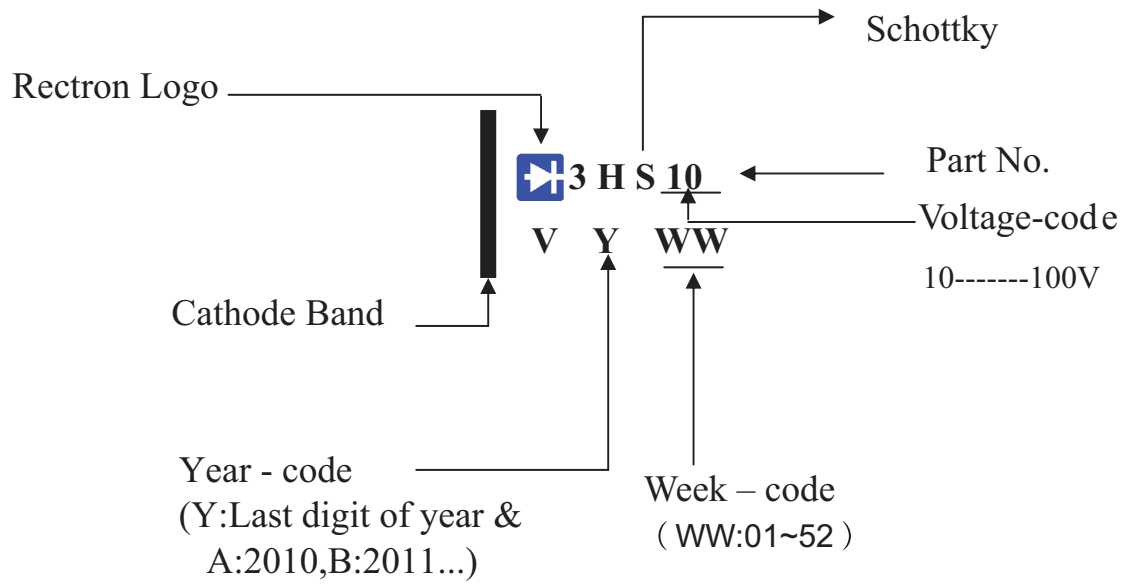
FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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)
SMC	-W/-T	3,000	3,000	---	---	330	360*355*360	24,000	11.50

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