

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Low forward voltage drop

MECHANICAL:

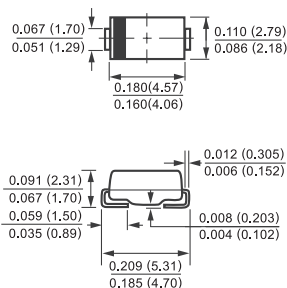
- *Epoxy : Device has ULflammability classification94V-0
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

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-214AC



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	FM145L-W-S-R01	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	45	Volts
Maximum RMS Voltage	VRMS	31.5	Volts
Maximum DC Blocking Voltage	VDC	45	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40	Amps
Typical Thermal Resistance (Note 1)	RθJA	50	°C/W
Typical Junction Capacitance (Note 2)	CJ	110	pF
Operating Temperature Range	TJ	-65 to + 125	°C
Storage Temperature Range	TSTG	-65 to + 150	°C

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

CHARACTERISTICS	SYMBOL	FM145L-W-S-R01	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	.50	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	IR	1.0	mAmps
		10	mAmps

NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Monuted with 0.2X0.2" (5.0X5.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (FM145L-W-S-R01)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

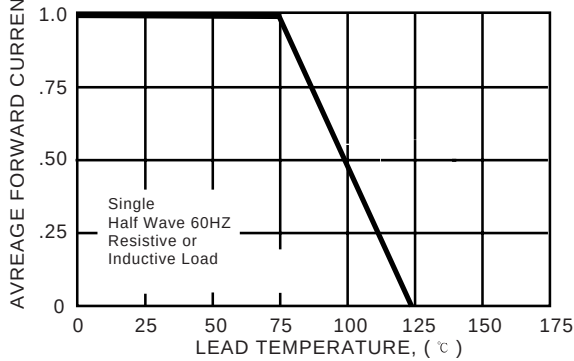


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

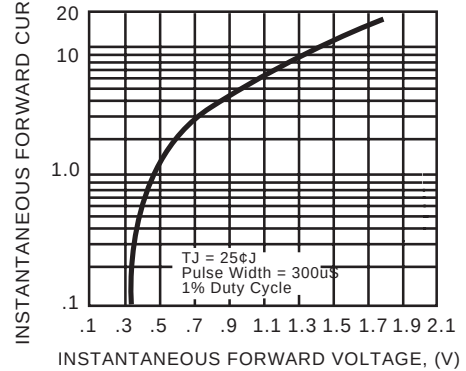


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

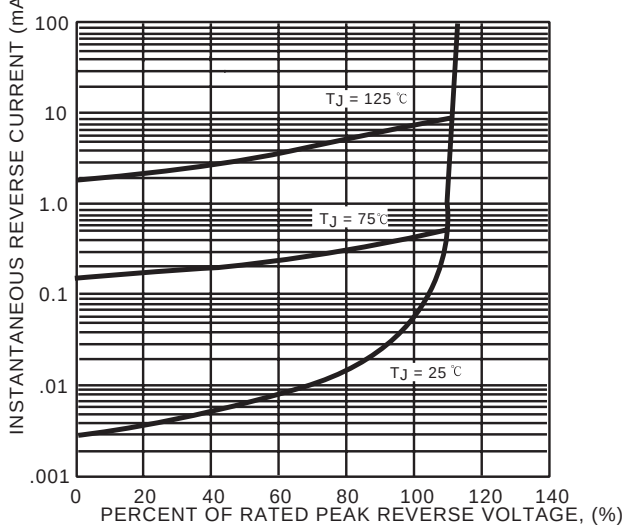


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

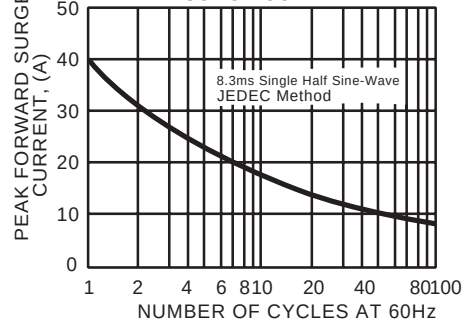
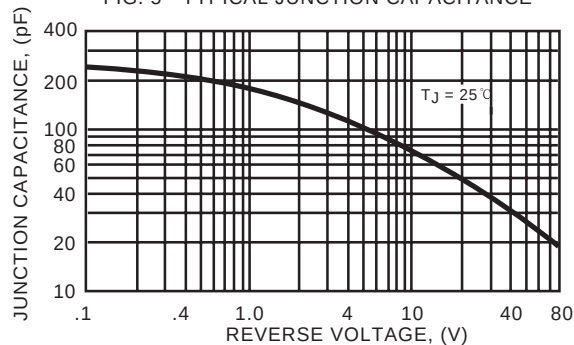
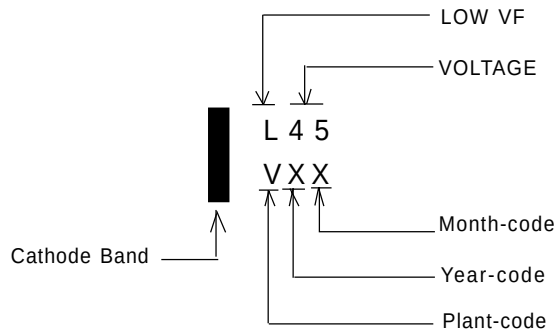


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



1. Marking on the body



2. Packing Methode

PACKAGE	EA PER REEL	COMPONENT SPACE(m/m)	TAPE SPACE (m/m)	REEL DIA (m/m)	CARTON SIZE (m/m)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA-W	5,000	---	---	330	355*360*215	50,000	8.86