

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

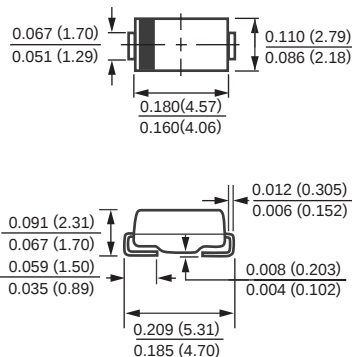
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

LOW VF

DO-214AC

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%.



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	FM120M	FM130M	FM140M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I _O	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	40			Amps
Typical Thermal Resistance (Note 1, 2)	R _{θJA}	88			°C/W
	R _{θJL}	28			
Operating Temperature Range	T _J	-55 to + 150			°C
Storage Temperature Range	T _{STG}	-55 to + 150			°C

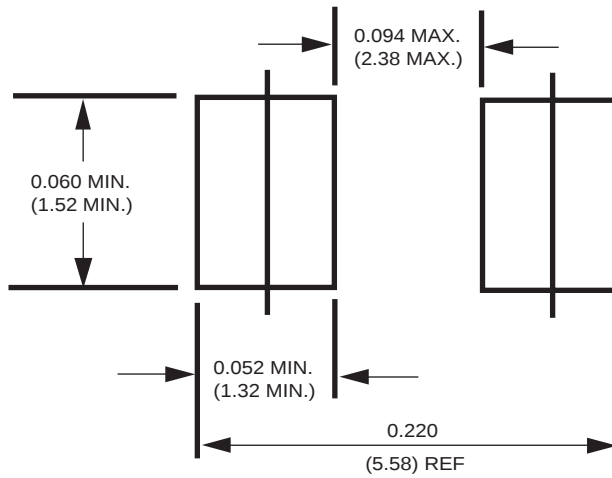
ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	FM120M	FM130M	FM140M	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	V_F	0.44			Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I_R	1.0			mAmps
		10			mAmps

NOTES : 1. Thermal Resistance (Junction to Ambient).
2. P.C.B Monuted with 0.2X0.2" (5.0X5.0mm²) copper pad area.

2002-10

Mounting Pad Layout



Dimensions in inches and (millimeters)