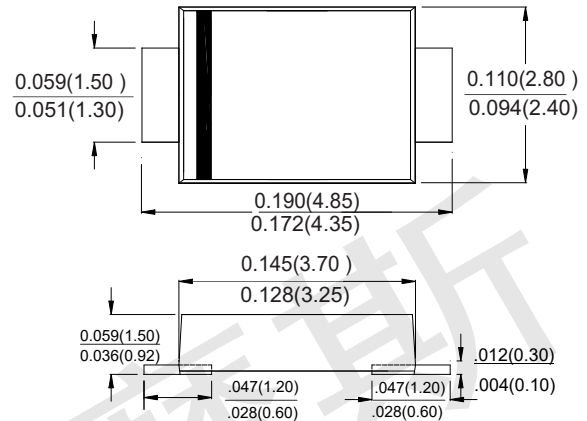


FEATURES

- Construction utilizes void-free molded plastic technique
- Low profile package
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: JEDEC SMAF molded plastic over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)

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 current derate by 20 %.

Parameter	Symbols	R1200	R1500	R1800	R2000	R2500	R3000	R3500	R4000	R5000	Units
		RE12K	RE15K	RE18K	RE2K	RE25K	RE3K	RE35K	RE4K	RE5K	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1200	1500	1800	2000	2500	3000	3500	4000	5000	V
Maximum RMS voltage	V _{RMS}	840	1050	1260	1400	1750	2100	3450	2800	3500	V
Maximum DC Blocking Voltage	V _{DC}	1200	1500	1800	2000	2500	3000	3500	4000	5000	V
Maximum Average Forward Rectified Current at T _c = 125 °C	I _{F(AV)}	0.5			0.2						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30.0									A
Maximum Instantaneous Forward Voltage at 0.5 A	V _F	1.0			3.0		4.0		5.0		V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =100 °C	I _R	10.0 200.0									μA
Typical Junction Capacitance ⁽¹⁾	C _j	15									pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	50									℃/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150									℃

(1) Measured at 1MHz and applied reverse voltage of 4.0V D.C.

(2) Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

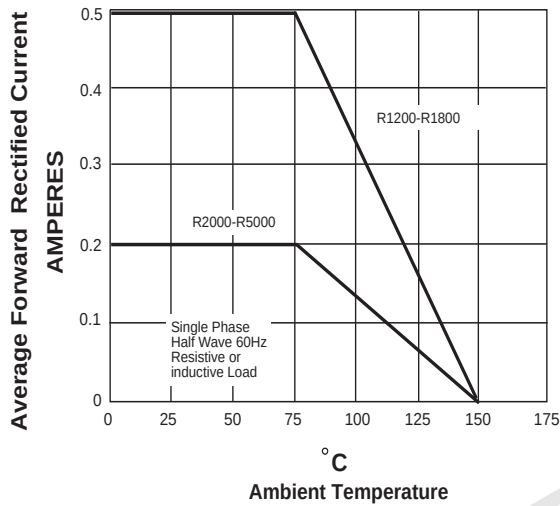


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

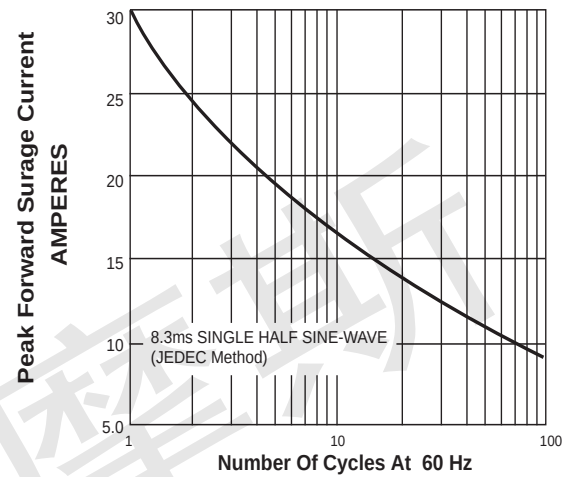


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

