# FR3A THRU FR3M

### **FAST RECOVERY GLASS PASSIVATED RECTIFIERS**

#### **FEATURES:**

- High temperature bonded construction
- Fast switching for use in hugh frequency circuit
- No thermal runaway at 3.0 Amp. Current Ta=55℃
- High temperature soldering guaranteed : 250 ℃ /10 seconds, 0.375" lead length

#### MECHANICAL DATA

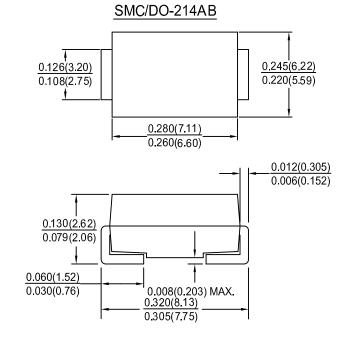
Case: Molded plastic UL 94V-0 recognized flame retardant epoxy

Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color band on body denotes cathode end

Mounting Position: Any



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

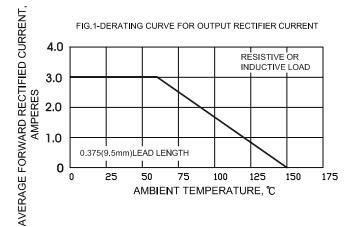
Characteristic	Symbol	FR3A	FR3B	FR3D	FR3G	FR3J	FR3K	FR3M	Units
Maximum recurrent peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375 lead length at Ta=55℃	I(AV)	3. 0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	125. 0							Amps
Maximum instantaneous forward voltage drop at 3. 0A	VF	1.3							Volts
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=125℃	IR	5. 0 100. 0							μΑ
Typical reverse recovery time (note 1)	trr	150	150	150	150	250	500	500	nS
Typical thermal resistance	Rth-JA	20							°C/W
Typical junction capcaitance (note 2)	Cj	60. 0							pF
Operating junction and storage temperature range	Tj,Tstg	-65 to +150							೮

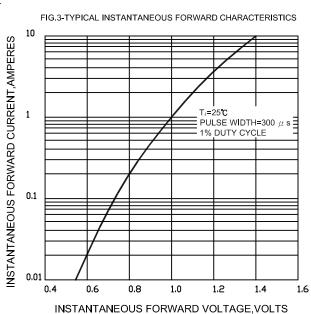
NOTES:1. Reverse recovery test condition; I F=0.5A, IR=1.0A, IRR=0.25A

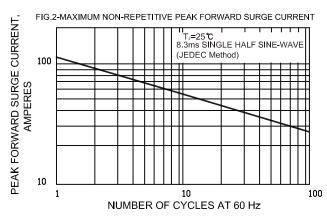
2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC

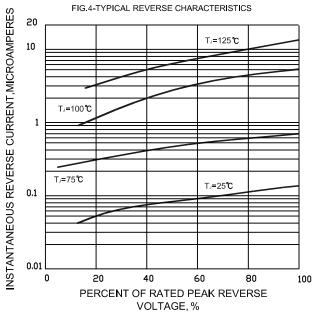
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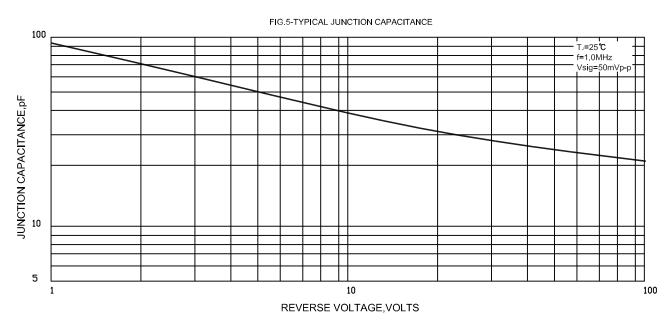
#### RATINGS AND CHARACTERISTIC CURVES











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