



FR2A~FR2J

SURFACE MOUNT FAST RECOVERY RECTIFIER

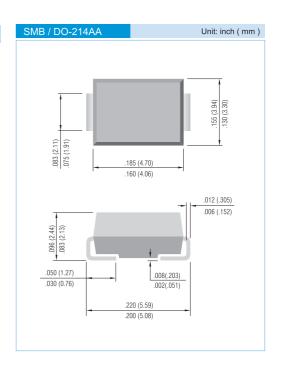
VOLTAGE 50 to 600 Volts CURRENT 2.0 Ampere

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 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%.

SYMBOL	FR2A	FR2B	FR2D	FR2G	FR2J	UNITS
V _{RRM}	50	100	200	400	600	V
V _{RMS}	35	70	140	280	420	V
V _{DC}	50	100	200	400	600	V
I _{F(AV)}	2.0					А
I _{FSM}	50					А
V _F	1.3				V	
I _R	1.0 150					μА
t _{rr}	150			250	ns	
C J	40				pF	
R _{eJL}	20				°C / W	
T _J ,T _{STG}	-50 to +150				°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{F(AV)} \\ \\ I_{FSM} \\ V_{F} \\ \\ I_{R} \\ \\ t_{rr} \\ \\ C_{J} \\ \\ R_{\theta JL} \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R C _J R _{ØJL}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R 1 C _J R _{θJL}	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 t _{rr} 150 C _J 40 R _{eJL} 20	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 150 C _J 40 R _{GJL} 20	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 150 250 C _J 40 R _{BJL} 20

NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A

- 2. Measured at 1 MHz and applied V_r = 4.0 volts.
- 3. 8.0 mm^2 (.013mm thick) land areas.





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RATING AND CHARACTERISTIC CURVES

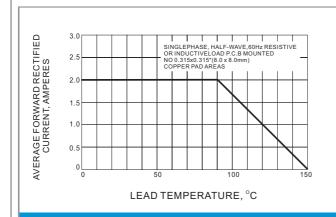


Fig.1 FORWARD CURRENT DERATING CURVE

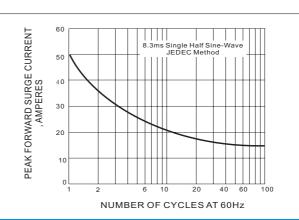


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

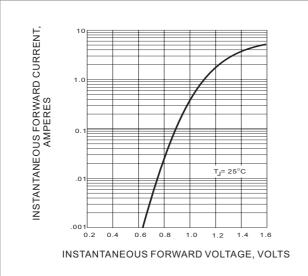


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

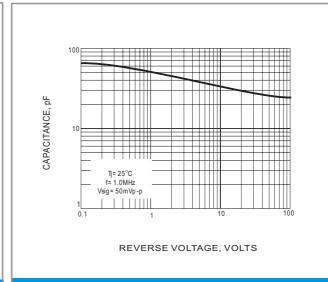


Fig.4 TYPICAL JUNCTION CAPACITANCE

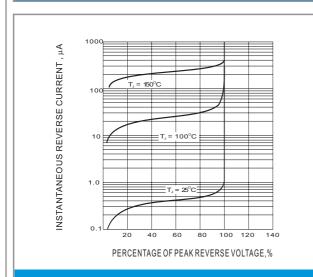


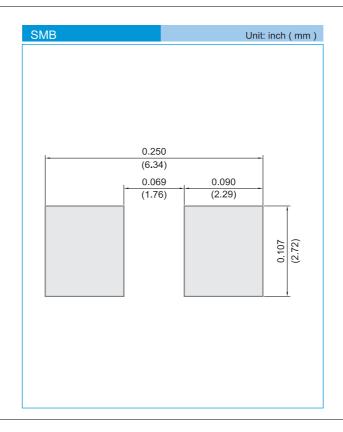
Fig.5-TYPICAL REVERSE CHARACTERISTIC





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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel

LEGAL STATEMENT

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