SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE 50 to 600 Volts CURRENT

FEATURES

PAN

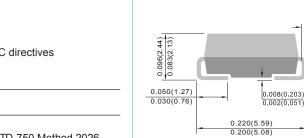
- For surface mounted applications
- Low profile package

SEM CONDUCTOF

- · 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
- Acqire quality system certificate : TS16949
- AEC-Q101 qualified
- · Lead free in comply 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



0.083(2.11)

SMB/DO-214AA

0.185(4.70)

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%.

2 Ampere

PARAMETER		FR2A-AU	FR2B-AU	FR2D-AU	FR2G-AU	FR2J-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage		35	70	140	280	420	V
Maximum DC Blocking Voltage		50	100	200	400	600	V
Maximum Average Rectified Current at T_L =90 °C	I _{F(AV)}	2					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50					A
Maximum Forward Voltage at 2A	V _F	1.3				V	
Maximum DC Reverse Current Tj=25°C at Rated DC Blocking Voltage Tj=125°C	I _R	1 150				μA	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150 25			250	ns	
Maximum Junction Capacitance (Note 2)	C	40				рF	
Typical Junction Resistance (Note 3)	R _{ejl}	20				°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-50 to +150				°C	

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 $V_{\textrm{r}}$ = 4.0 volts.

3. 8.0 \mbox{mm}^2 (.013mm thick) land areas.

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Unit : inch(mm)

.155(3.94) .130(3.30)

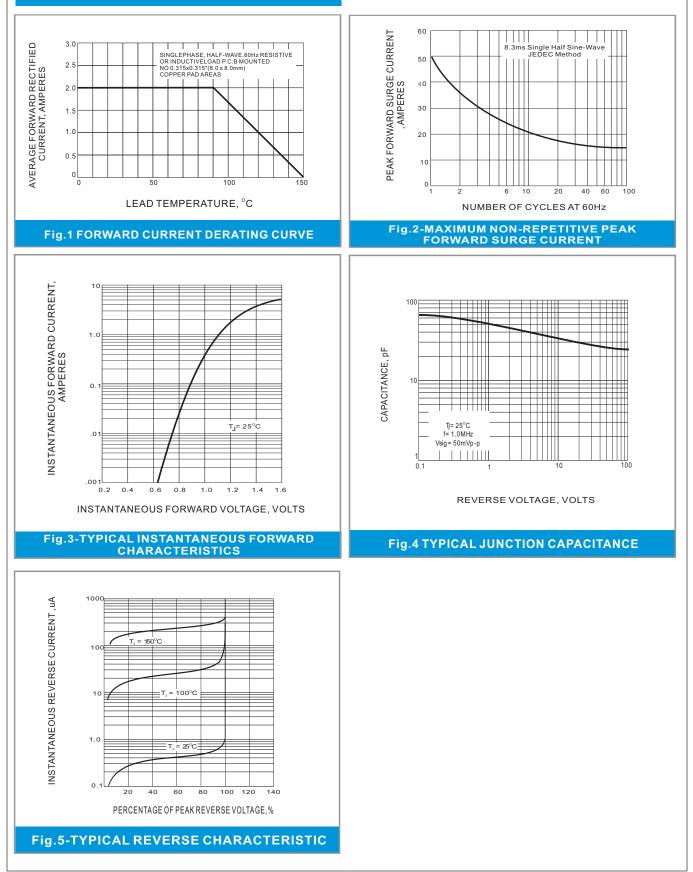
0.012(0.305) 0.006(0.152)

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FR2A-AU~FR2J-AU

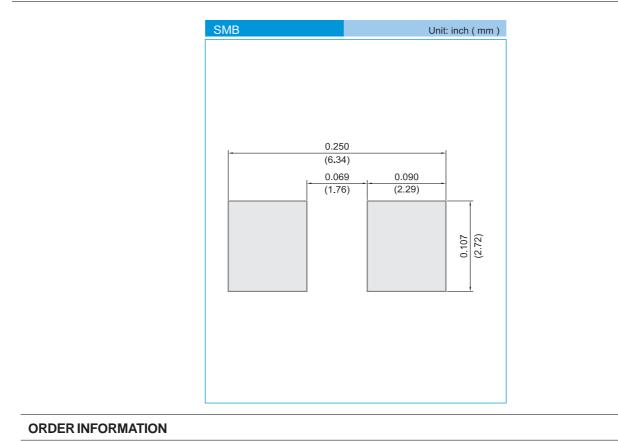
RATING AND CHARACTERISTIC CURVES





FR2A-AU~FR2J-AU

MOUNTING PAD LAYOUT



Packing information

T/R - 3K per 13" plastic Reel T/R - 0.5Kper 7" plastic Reel





FR2A-AU~FR2J-AU

Part No_packing code_Version

FR2A-AU_R1_000A1	
FR2A-AU_R1_100A1	
FR2A-AU_R2_000A1	
FR2A-AU_R2_100A1	

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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