

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

FR2A THRU FR2M

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

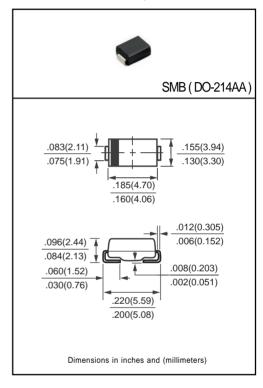
* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant *Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 0.093 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%.



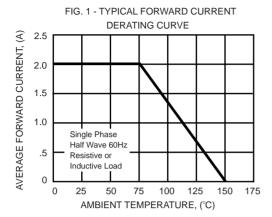
		SYMBOL	FR2A	FR2B	FR2D	FR2G	FR2J	FR2K	FR2M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75 °C		lo	2.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50						Amps	
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	1.3						Volts	
Maximum DC Reverse Current	@Ta = 25°C	JR 5.0						uAmps		
at Rated DC Blocking Voltage	@Ta = 100°C	ik ik	150							
Maximum Reverse Recovery Time (Note 3)		trr		150		250	500		nSec	
Typical Thermal Resistance (Note 2)		RθJL	20						°C/W	
Typical Junction Capacitance (Note 1)		CJ	30						pF	
Operating and Storage Temperature Range		TJ,TSTG	-55 to + 150						۰c	

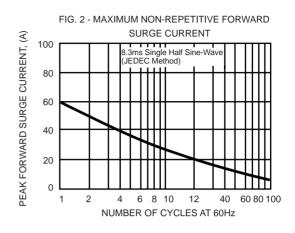
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

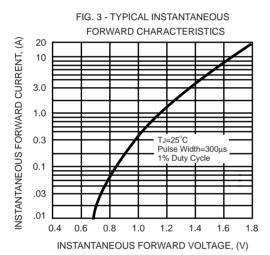
- 2. Thermal Resistance (Junction to Ambient), 0.2x0.2in² (5X5mm²) copper pads to each terminal.
- 3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

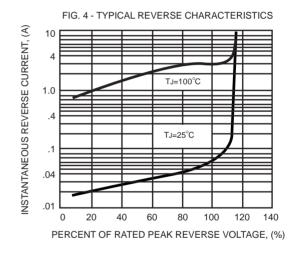
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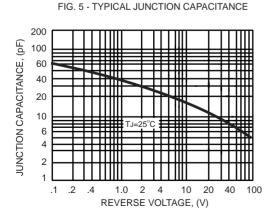
RATING AND CHARACTERISTIC CURVES (FR2A THRU FR2M)

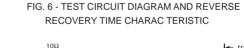


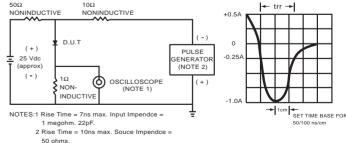












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