

HITANO ENTERPRISE CORP.

FR3A THRU FR3K

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 800 Volts CURRENT - 3.0 Amperes

FEATURES

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

MECHANICAL DATA

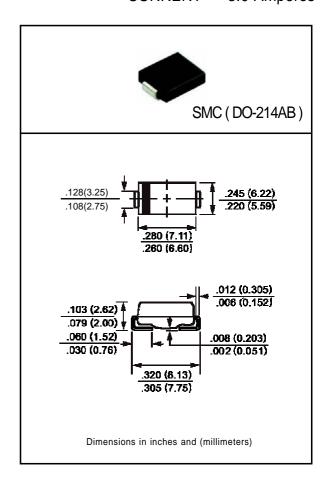
* Case: Molded plastic

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

* Polarity: As marked* Mounting position: Any* Weight: 0.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	FR3A	FR3B	FR3D	FR3G	FR3J	FR3K	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	300	400	Volts
Maximum RMS Voltage		VRMS	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Rectified Current TA = 75°C		lo	3.0						Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100					Amps	
Maximum Forward Voltage at 3.0A DC		VF	1.2					Volts	
Maximum DC Average Reverse Current at Rated DC Blocking Voltage	@TA = 25 C @TA = 125°C	- IR	10 300					uAmps	
Maximum Reverse Recovery Time (Note 3)		trr		150 250 50		500	nSec		
Typical Thermal Resistance (Note 2)		RθJL	10						°C/W
Typical Junction Capacitance (Note 1)		C1	60						pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175						٥C

 $\ensuremath{\mathsf{NOTES}}$: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

- 2. Thermal Resistance (Junction to Ambient), 0.4x0.4in² (10.0X10.0mm²) copper pads to each terminal.
- 3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

RATING AND CHARACTERISTIC CURVES (FR3ATHRU FR3K)

