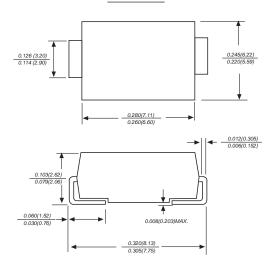
FR5A THRU FR5M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Amperes

DO-214AB



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
 High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.25 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

	SYMBOLS	FR5A	FR5B	FR5D	FR5G	FR5J	FR5K	FR5M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=75°C	l(AV)	5.0							А
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	Ifsm 150.0							Α
rated load									
Maximum instantaneous forward voltage at 5.0A	VF	1.3							V
Maximum DC reverse current Ta=25℃		5.0							μА
at rated DC blocking voltage Ta=100℃	lR	IR 100.0							μ, ι
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Сл		78.0						pF
Typical thermal resistance (NOTE 3)	Reja	55.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

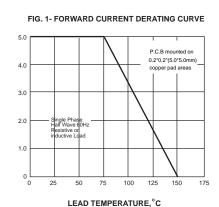
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

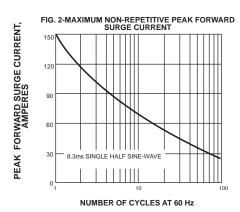
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

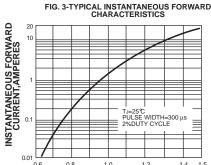


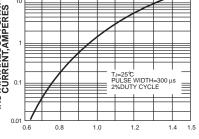
RATINGS AND CHARACTERISTIC CURVES FR5A THRU FR5M

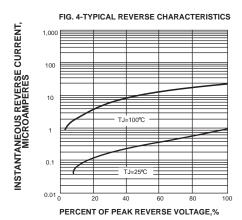




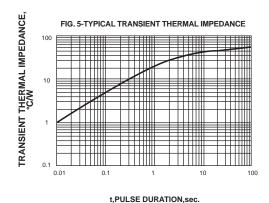


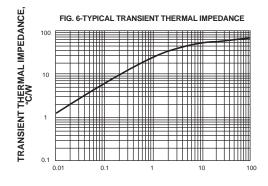






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

