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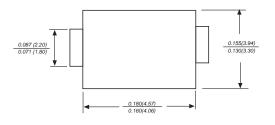
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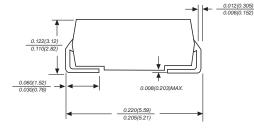
FR1A THRU FR1M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

DO-214AA





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-214AA 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: 0.005 ounce, 0.138 grams

SMA package is available.

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%.

MDD Catalog Number	SYMBOLS	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	FR1M	UNITS
Maximum repetitive 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 TL=90°C	l _(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	50.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 200.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr		15	50		250	50	00	ns
Typical junction capacitance (NOTE 2)	Сл	40.0							pF
Typical thermal resistance (NOTE 3)	Reja	15.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 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

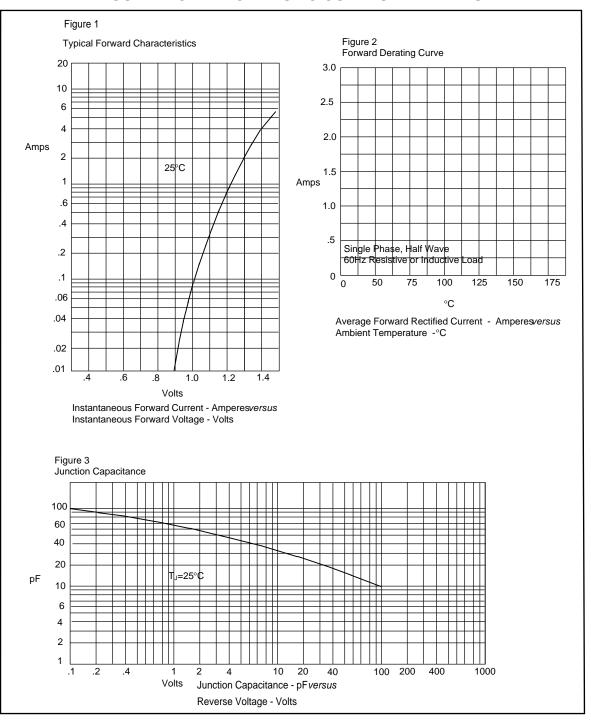
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RATINGS AND CHARACTERISTIC CURVES FR1A THRU FR1M



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