FR1A THRU FR1K

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE：50-800V **CURRENT：1.0A**

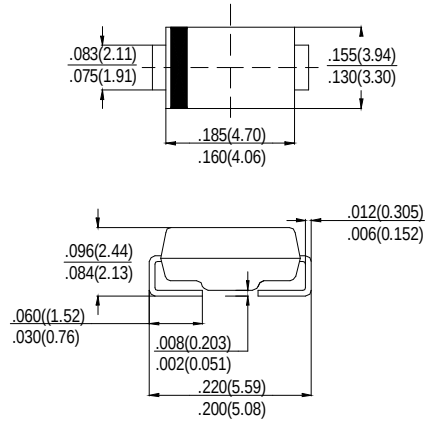
FEATURES

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

MECHANICAL DATA

- ***Case*:** Molded plastic
- ***Epoxy*:** UL94V-0 rate flame retardant
- ***Terminals*:** Solder plated,solderable per MIL-STD- 750, Method 2026
- ***Polarity*:** As marked
- ***Mounting position*:** Any
- ***Weight*:** 0.064 grams

SMB（DO-214AA）



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	V
Maximum Average Forward rectified Current at T_A=75°C	I_o	1.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30						A
Maximum forward Voltage at 1.0A DC	V_F	1.3						V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T_A=25°C	I_R	5.0						μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T_A=125°C	I_R	50						μA
Typical Thermal Resistance (Note3)	$R_{\theta JL}$	30						°C/W
Maximum Reverse Recovery Time (Note 2)	t_{rr}	150				250	500	nS
Typical Junction Capacitance (Note1)	C_J	15						pF

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0 volts
2.Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
3.Thermal Resistance (Junction to Ambient), .24in^2 (6.0mm^2) copper pads to each terminal