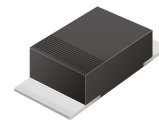


CFRM101-G Thru. CFRM107-G

Voltage: 50 to 1000 Volts

Current: 1.0 A

RoHS Device

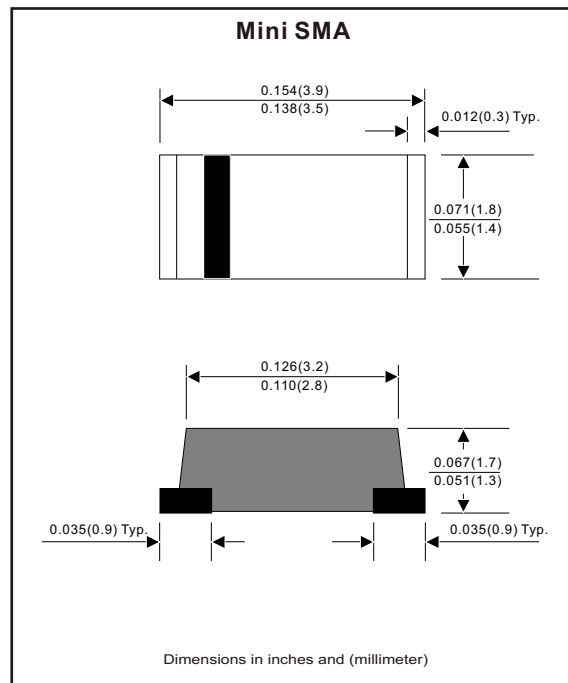


Features

- Plastic package has Underwriters Laboratory flammability classification 94V-0 utilizing flame retardant epoxy molding compound.
- For surface mounted applications.
- Exceeds environmental standard of MIL-STD-19500/228.
- Low leakage current.

Mechanical data

- Case: Molded plastic, JEDEC SOD-123/Mini SMA.
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.04 grams approx.



Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	CFRM 101-G	CFRM 102-G	CFRM 103-G	CFRM 104-G	CFRM 105-G	CFRM 106-G	CFRM 107-G	Unit
Repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Continuous reverse voltage	V _R	50	100	200	400	600	800	1000	V
Forward rectified current @T _A =55°C	I _O	1.0							A
Maximum forward voltage	V _F	1.3							V
Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							A
Reverse current, V _R =V _{RRM} @T _A =25°C @T _A =100°C	I _R	1.0 100							μA
Reverse recovery time	t _{rr}	150				250	500		nS
Thermal resistance, junction to ambient air	R _{θJA}	42							°C/W
Diode junction capacitance	C _J	15							pF
Operating junction temperature	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

Rating and Characteristic Curves (CFRM101-G Thru. CFRM107-G)

Fig.1 Forward Characteristics

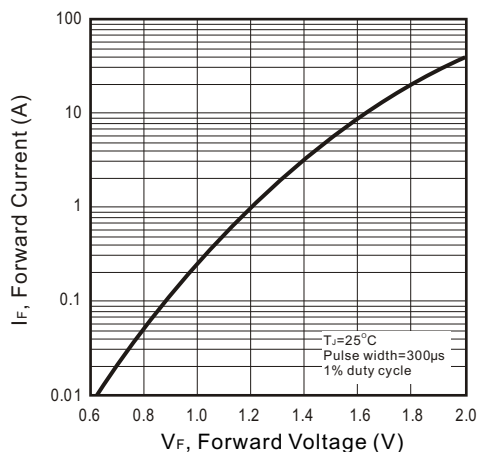


Fig.2 Forward Current Derating Curve

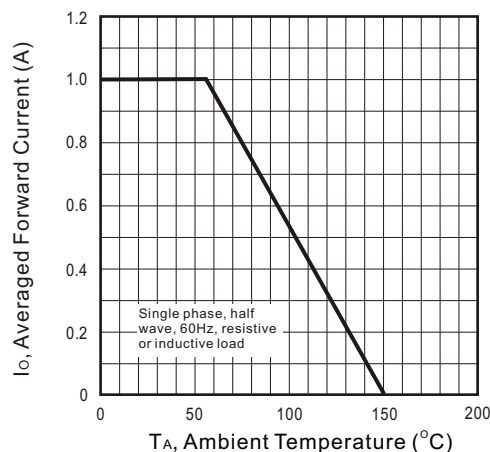


Fig.3 Max. Non-repetitive Forward Surge Current

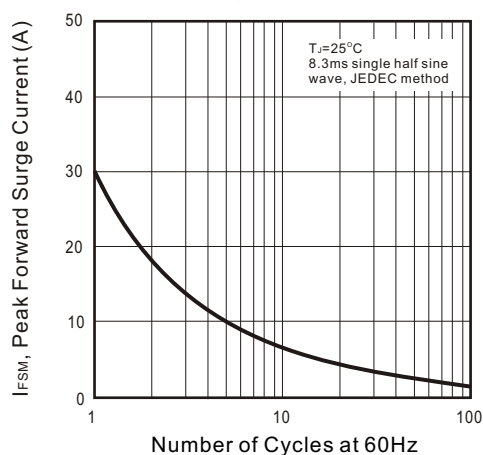


Fig.4 Typical Junction Capacitance

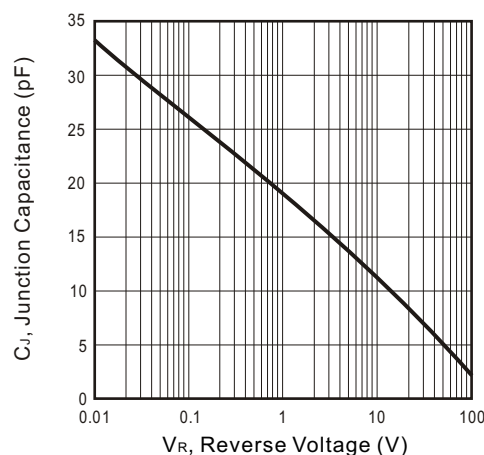
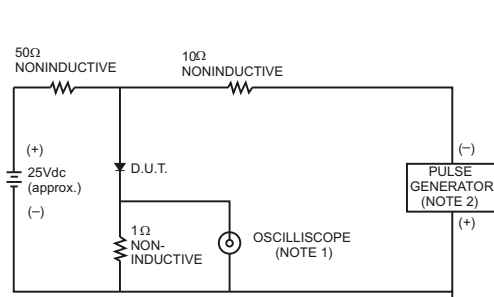


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time = 7ns max., Input Impedance = 1 megohm.22pF.

2. Rise Time = 10ns max., Source Impedance = 50 ohms.

