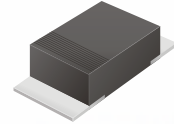


SMD Genenal Purpose Rectifier

COMCHIP 
www.comchip.com.tw

CGRM4001 Thru CGRM4007

Glass Passivated Type
Reverse Voltage: 50 - 1000 Volts
Forward Current: 1.0 Amp



Features

Ideal for surface mount applications

Easy pick and place

Plastic package has Underwriters Lab.
flammability classification 94V-0

Exceeds environmental standard MIL-S-
19500/228

Low leakage current

Mechanical data

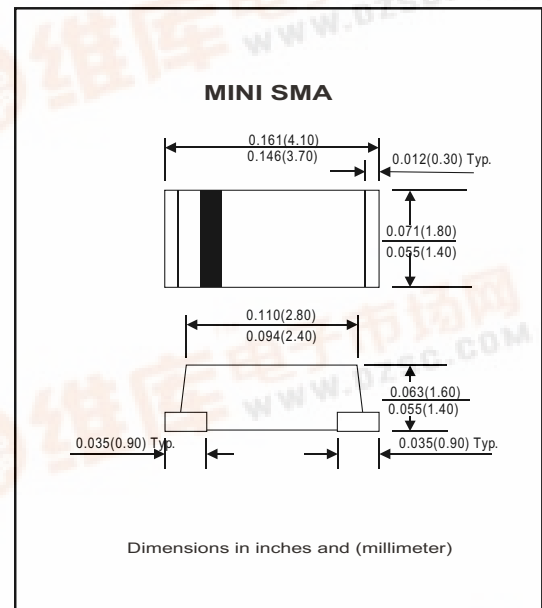
Case: Mini SMA/SOD-123 molded plastic

Terminals: solderable per MIL-STD-750,
method 2026

Polarity: Color band denotes cathode
end

Mounting position: Any

Approx. Weight:0.04 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGRM 4001	CGRM 4002	CGRM 4003	CGRM 4004	CGRM 4005	CGRM 4006	CGRM 4007	Unit
Max. Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max. RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rateload (JEDEC method)	I _{FSM}	30							A
Max. Average Forward Current	I _O	1.0							A
Max. Instantaneous Forward Current at 1.0 A	V _F	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	I _R	5 50							uA
Max. Thermal Resistance (Note 1)	R _{θJA}	60							°C/W
Operating Junction Temperature	T _j	-55 to +150							°C
Storage Temperature	T _{STG}	-55 to +150							°C

Note 1: Thermal resistance from junction to ambient.

Rating and Characteristic Curves (CGRM4001 Thru CGRM4007)

Fig. 1 - Reverse Characteristics

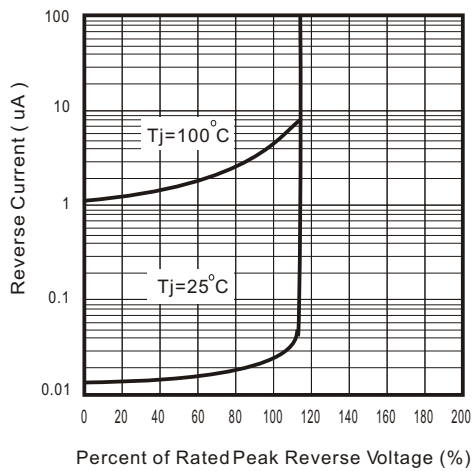


Fig.2 - Forward Characteristics

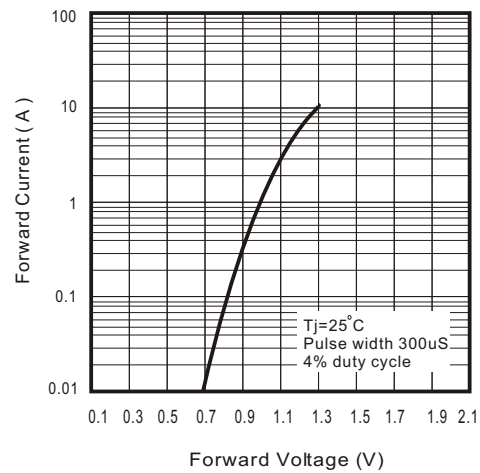


Fig. 3 - Jundion Capacitance

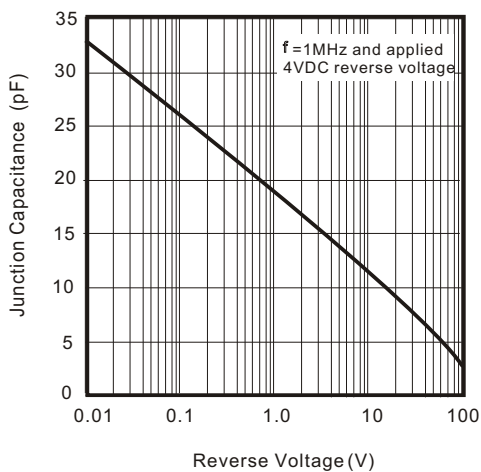


Fig. 4 - Current Derating Curve

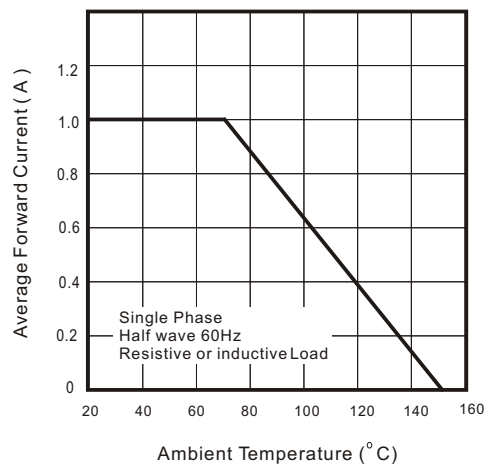


Fig. 5 - Non Repetitive Forward Surge Current

