

New Product Announcement

CGRMT4001-HF Thru. CGRMT4007-HF

Low Profile SMD General Purpose Rectifiers

range from 50 to 1000 volts.

Package: SOD-123H / MINI SMA

(Molded Plastic)

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device

Halogen Free

Excellent power dissipation offers better reverse leakage current and thermal resistance

Low profile package is 40% thinner than standard SOD-123 package

Low power loss, high efficiency

High current capability, low forward voltage drop.

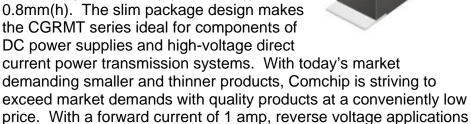
High surge capability

Guarding for over voltage protection

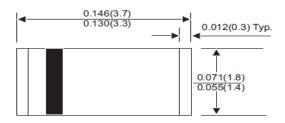
Ultra high-speed switching

Silicon epitaxial planar chip, metal silicon junction.

Lead-free part meets environmental standards of MIL-STD-19500/228 Comchip's CGRMT general purpose rectifier series utilizes the low profile flat chip SOD-123H (MINI SMA) package. The SOD-123H measures just: 1.6mm(w) x 3.5mm(l) x 0.8mm(h). The slim package design makes the CGRMT series ideal for components of DC power supplies and high-voltage direct



SOD-123H





Dimensions in inches and (millimeter)

Epoxy: UL94-V0 rated flame retardant

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band

Mounting Position: Any

Weight: 0.011 grams

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

Parameter		Symbol	CGRMT 4001-HF	CGRMT 4002-HF	CGRMT 4003-HF	CGRMT 4004-HF	CGRMT 4005-HF	CGRMT 4006-HF	CGRMT 4007-HF	Unit
Max. repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	V
Max. Continuous reverse voltage		VR	50	100	200	400	600	800	1000	V
Max. RMS voltage		VRMS	35	70	140	280	420	560	700	V
Max. averaged forward current		lo	1.0							Α
Max. Forward voltage @ l⊧=1.0A		VF	1.1							V
Max. Forward surge current 8.3ms singe half sine-wave superimposed on rated load (JEDEC method)		Ігѕм	25							А
Max. Reverse current	VR=VRRM TJ=25°C	lR	5.0							μΑ
	VR=VRRM TJ=100°C		50							
Typ. Thermal resistance, junction to ambient air		Rеја	60							°C/W
Typ. Junction capacitance f=1MHz and applied 4V DC reverse voltage		Cı	15							pF
Operating junction temperature		Tu	-55 to +150							°C
Storage temperature range		Тѕтс	-65 to +175							°C

