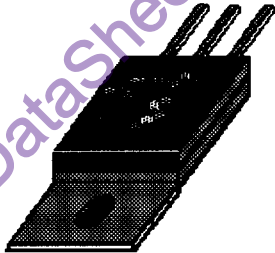


8.0 Amp SILICON CONTROLLED PLASTIC RECTIFIERS

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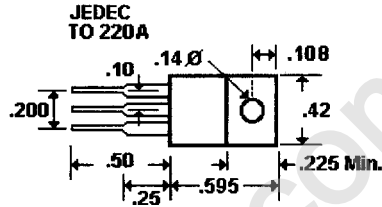
Description

CR800-2....- 8 Series



Mechanical Dimensions

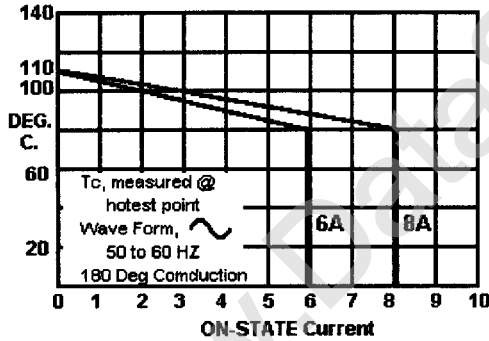
CR800-2....- 8 Series



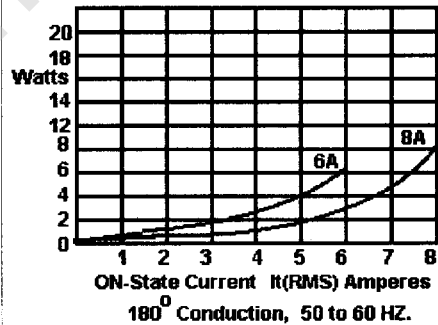
Features

- O IC Compatible (TTL & MOS)
- O Non-Sensitive gate Trigger
- O Voltage Ratings From 50V to 600V
- O Void Free Passivated Glass Passivated Chips

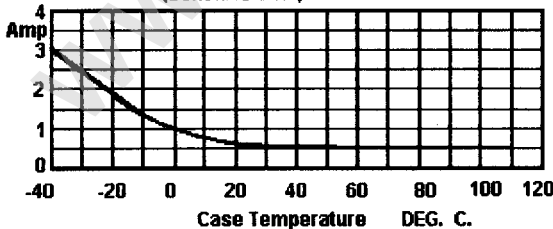
Maximum Allowable case Temperature vs. ON-STATE Current



Maximum Conduction Power Disipation vs. ON-STATE Current

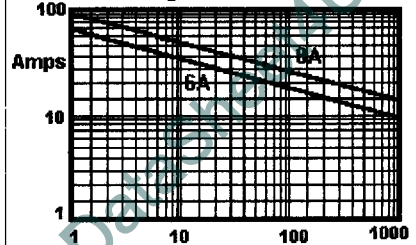


Typical Gate Current vs. Case Temperature (Sensitive Gate)



Surge current duration, full cycle @ 60HZ
 Current wave form 60 HZ, Sinesoidal
 Resistive load, I_t(rms) = Amps @ 50 Deg. C.

Peak Surge On State Current vs. Surge Current Duration



Gate control maybe lost during and after surge. Gate control will be regained after T_j returns to steady state value

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8.0 Amp SILICON CONTROLLED PLASTIC RECTIFIERS

Preliminary Data Sheet

10093

Electrical Characteristics @ 25 Deg. C.

Maximum Ratings	CR800-2.....- 8 Series	Volts
Repetitive Peak Offstate Voltage...VDRM	CR800-2	100
Maximum Repetitive Peak Reverse Voltage...VRRM	CR800-3	200
Tc = 125 C.	CR800-4	400
Tstg.....-40 to 150 deg. C.	CR800-6	600
Toper.....-40 to 110 deg. C.	CR800-8	
RMS On State Current It(rms)	8	Amp
Tc = 50 C., Conduction Angle 180 Deg.		
Peak Surge Non-Repetitive On State Current I _{tsm}	40	Amp
One cycle at 50 or 60 HZ		
Peak Gate Trigger Current I _{gtr}	1	Amp
3 uS Max		
Peak Gate Power Dissipation P _{gm}	.5	Watt
I _{gt} = I _{gtr}		
Average Gate Power Dissipation P _{g(av)}	.2	Watt
Peak Off State Current I _{dsm} & I _{rm}	10	uAmp Max.
RG-K=1K ohms, V _{drrm} & V _{rrm} = Max.	200	uAmp Max.
Maximum On-State Voltage (Peak) V _{fm}	2.2	V - Max
I _t = Rated Amps, TC = 25 C.		
DC Holding Current I _{ho}	5.0	mAmp Max
Gate Open & TC = 25 C.		
Critical Rate of Rise of OFF State Voltage Critical Dv/Dt	8.0	Volts/uS
Gate Open & TC = 110 C.		
DC Gate Trigger Current for Anode I _{gt}	200	uA - Max.
Voltage = 7VDC, RI = 100 ohms, TC = 25 C.		
DC Gate Trigger Voltage for Anode V _{gt}	1.0	V - Max
Voltage = 7VDC, RI = 100 ohms, TC = 25 C.		
Gate Controlled Turn On Time (T _d + T _r) T _{gt}	2.2	uS
I _{ct} = 10 mA, TC = 25 C.		
Thermal Resistance , Junction to case	2.2	Deg C/W

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