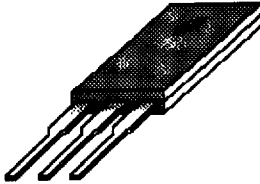


50 AMP HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIERS

Description

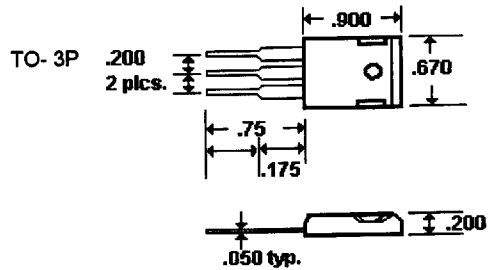
SR 5030...5060 Series

TO-3P



Mechanical Dimensions

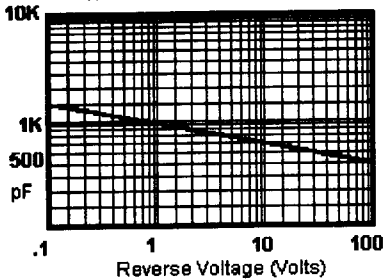
SR 5030...5060 Series



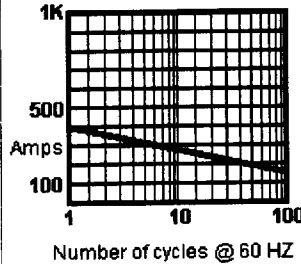
Features

- High Surge Voltage and Transient Protection
- Meets or Exceeds UL Flammability Specification 94V-0
- High Efficiency with Low Power Loss
- High Current Capability with Low Vf

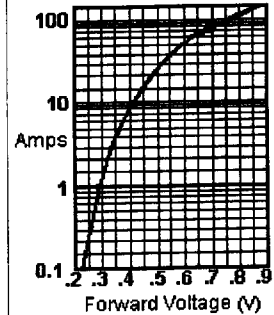
Typical Junction Capacitance



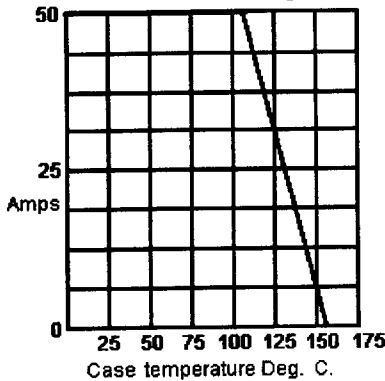
Peak forward surge Current



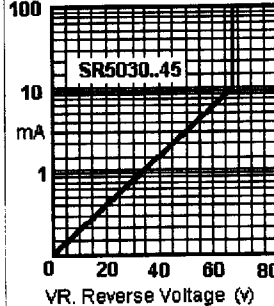
Instantaneous Forward Voltage vs. Forward Current



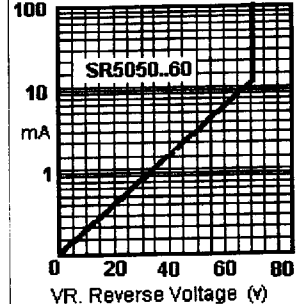
Forward Current Derating Curve



Typical Reverse Characteristics



Typical Reverse Characteristics



50 AMP HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIERS

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Maximum Ratings and Electrical Characteristics (@25 Deg. C)

SR 5030...5060 Series						Units
SR5030	SR5035	SR5040	SR5045	SR5050	SR5060	
30	35	40	45	50	60	Volts
30	35	40	45	50	60	Volts
30	35	40	45	50	60	Volts
21	24	28	31	35	42	Volts
50	50	50	50	50	50	Amps
500	500	500	500	500	500	Amps
----- 65 to + 150 -----						Deg. C
.65	.65	.65	.65	.70	.70	Volts
10	10	10	10	10	10	mA
100	100	100	100	150	150	mA

MAXIMUM RATINGS

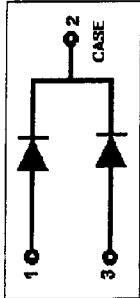
- DC Blocking Voltage.....VRM
- Maximum Repetitive Reverse Voltage...VRRM
- Working Peak Reverse Voltage.....VRWM
- RMS Reverse Voltage...VR(RMS)
- Average Rectified Forward Current, (Tc=110 Deg. C)...Io
- VR(equiv.)<=0.2VR(dc)
- Non Repetitive Peak Forward Surge Current...IFSM
- Surge Applied @ rated load cond., 1/2 wave single phase, 60HZ
- Maximum Operating Junction & Storage Temperature.....Tst,Tj

Electrical Characteristics

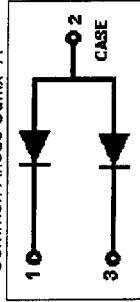
- Maximum Instantaneous Forward Voltage...VF
- IF = 25 Amps
- Maximum Instantaneous Reverse Current (@ Vr=VRM)...Ir
- Rated Voltage
- TL = 25 Deg. C.
- TL = 125 Deg. C.

50 AMP HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIERS

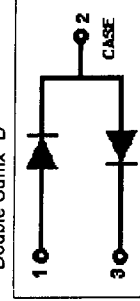
Electrical Description
Common Cathode Suffix "C"



Electrical Description
Common Anode Suffix "A"



Electrical Description
Double Suffix "D"



3219482 0000377 448