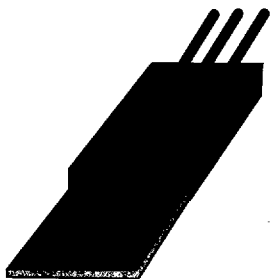


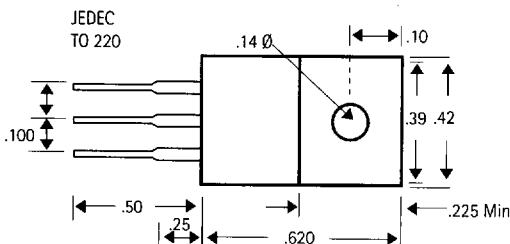
## SR1030-45, C, A & D Series

10 AMP HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIERS

### Description

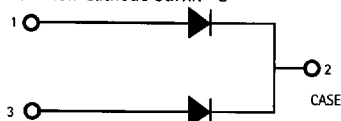


### Mechanical Dimensions

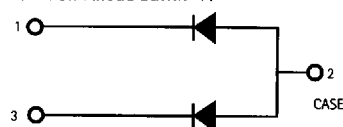


### Electrical Description

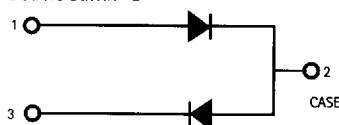
Common Cathode Suffix "C"



Common Anode Suffix "A"



Double Suffix "D"



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

# SR1030-45, C, A & D Series

## Maximum Ratings

Electrical Characteristics @ 25°C

SR 1030-45, C, A & D Series

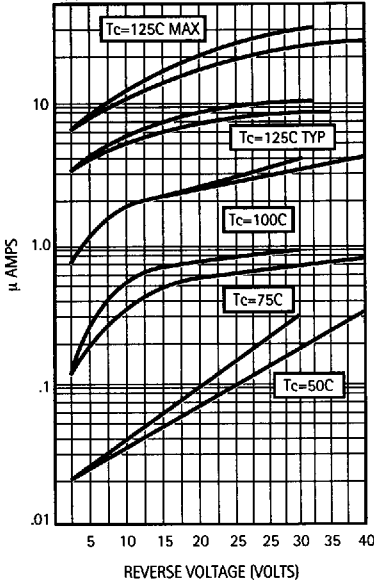
	/30	/35	/40	/45	Units
$V_{RM}$ DC Blocking Voltage	30	35	40	45	Volts
$V_{RRSM}$ Maximum Repetitive Reverse Voltage Pulse Test 0.5 mS, Duty Cycle 1/40	35	35	45	45	Volts
$I_{FSM}$ Non-Repetitive Peak Forward Surge Current Sinusoidal Wave, 60 HZ, 1 Cycle, $T_J=125$ Deg. C.	100	100	100	100	Amps
$I_O$ Average Rectified Forward Current, $T_c=104$ Deg.C.	10	10	10	10	Amps
$T_J$ Maximum Operating Junction Temperature	← -40 to +125 →				Deg. C
$T_{STG}$ Maximum Storage Temperature	← +125 →				Deg. C.
$Q_{JC}$ Thermal Resistance, Junction to case	3.0	3.0	3.0	3.0	Deg. C/W
$V_F$ Maximum Instantaneous Forward Voltage (@ $I_f = 5A$ )	.55	.55	.55	.55	V.Max.â
$I_R$ Maximum Instantaneous Reverse Current (@ $V_r=VRM$ )	5	5	5	5	mA

# SR1030-45 Series

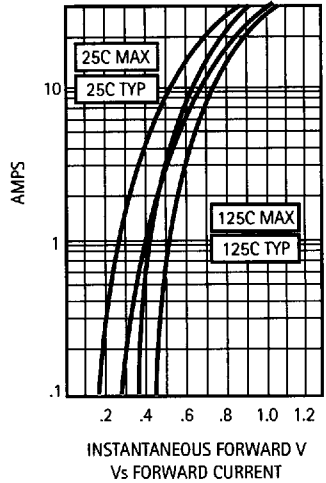
# SR1030-45 Series

## SR1030-45 C, A & D Series

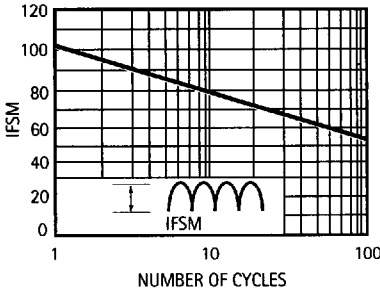
Typical Reverse Characteristics



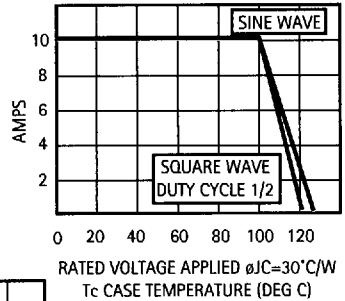
Forward Voltage Pulse Test @ Tc



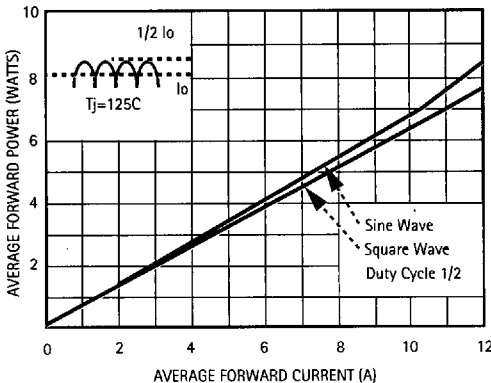
Maximum Surge Capability



Forward Current Derating Curve



Forward Power Dissipation



RATED VOLTAGE APPLIED @JC=30°C/W  
Tc CASE TEMPERATURE (DEG C)