



SR120 THRU SR1200

Schottky Barrier Rectifier

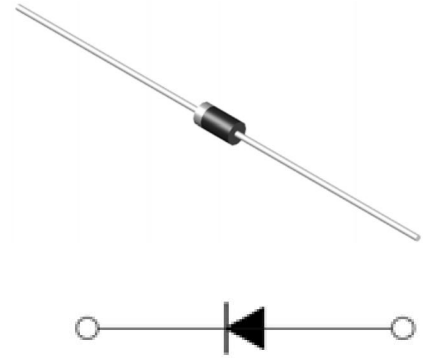
Reverse Voltage -20V to 200V

Forward Current -1.0A

DO-41

Features

- High current capability
- High surge current capability
- Low forward voltage drop
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters free Wheeling, and porlarlity protection applications



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20%

Parameter		Symbol	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current		I _{F(AV)}	1.0									A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)		I _{FSM}	30									A
Max Instantaneous Forward Voltage at 1A		V _F	0.55			0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	T _a = 25°C	I _R	0.5									mA
	T _a =100°C		10									
Typical Junction Capacitance ⁽¹⁾		C _j	110									pF
Typical Thermal Resistance ⁽²⁾		R _{θJA}	50									°C/W
Operating Junction Temperature		T _j	-55~+125			-55~+150						°C
Storage Temperature Range		T _{stg}	-55~+150									°C

(1) Measured at 1MHz and applied reverse voltage of 4V D.C

(2) Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 0.22"x0.22"(5.5x5.5mm) copper pad areas



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Typical Characteristics

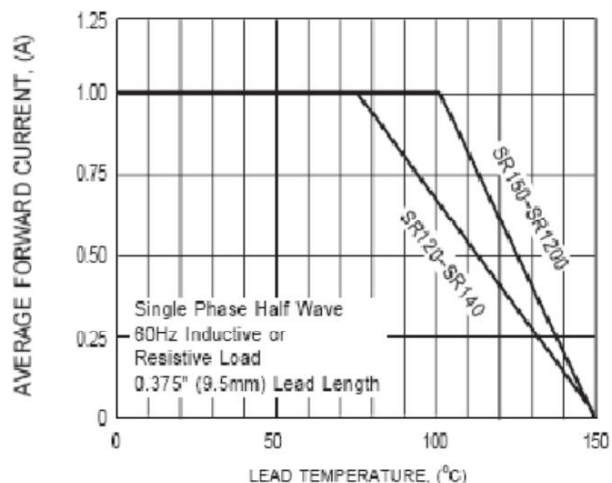


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

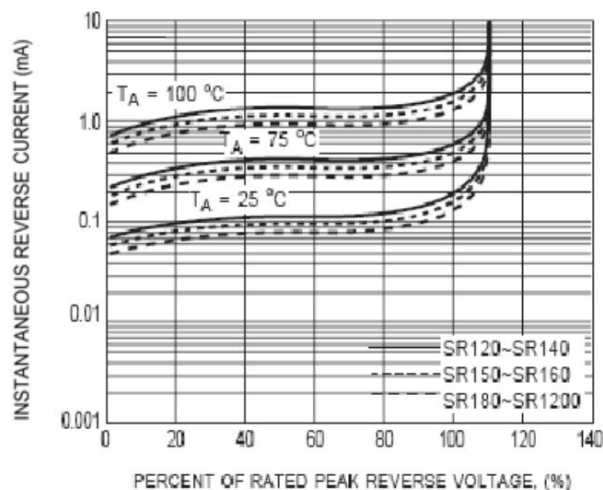


FIG.2 TYPICAL REVERSE CHARACTERISTICS

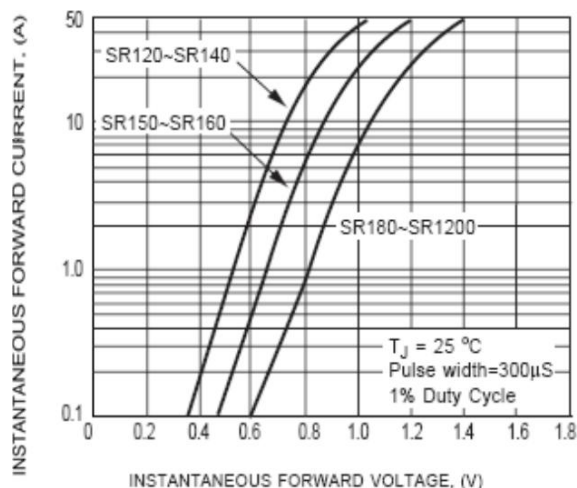


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

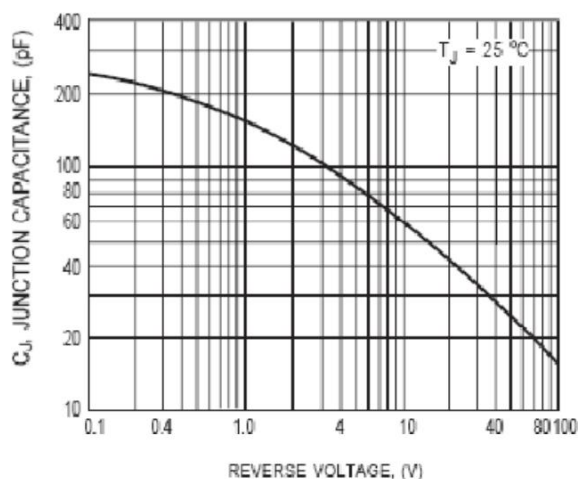


FIG.4 TYPICAL JUNCTION CAPACITANCE

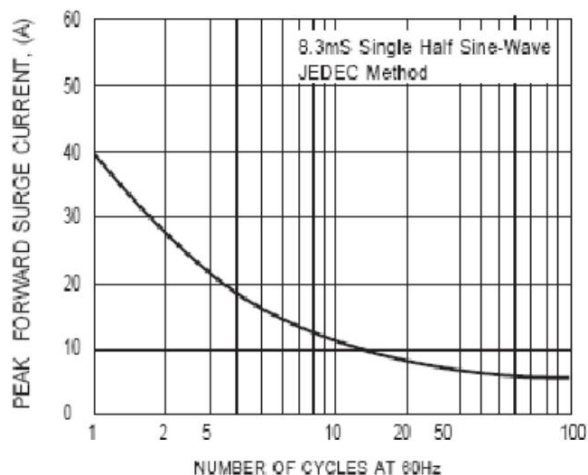


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

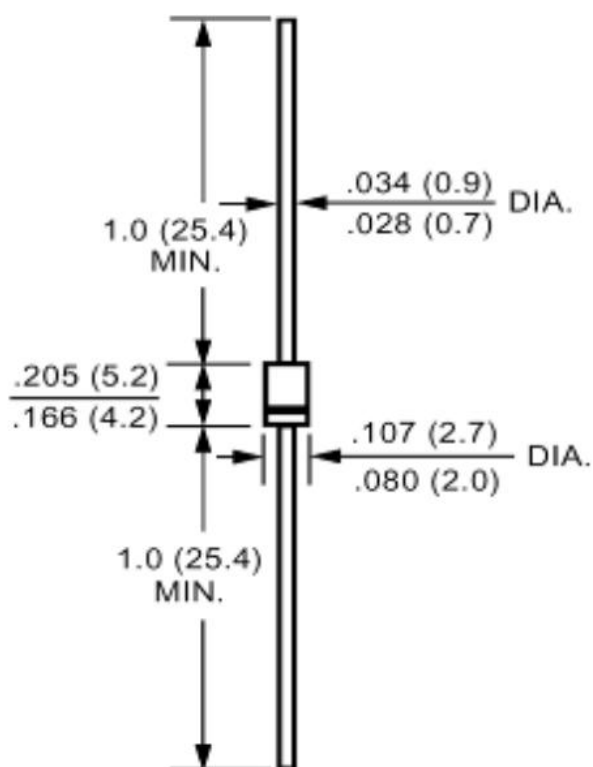


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Package Information

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Dimensions in mm





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