SR220-SR2200

2.0 AMP Schottky Barrier Rectifiers

VOLTAGE RANGE: 20 --- 200 V
CURRENT: 2.0 A

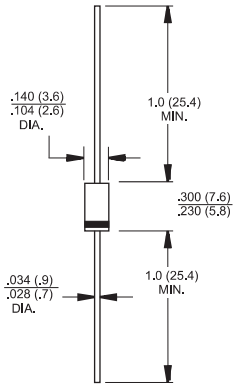
Features

- ✧ Metal-Semiconductor junction with guard ring
- ✧ Epitaxial construction
- ✧ Low forward voltage drop,low switching losses
- ✧ High surge capability
- ✧ For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ✧ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ✧ Case:JEDEC DO--15,molded plastic
- ✧ Terminals: Axial lead ,solderable per MIL- STD-750,Method 2026
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.014ounces,0.39 grams
- ✧ Mounting position: Any

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

Parameter	Symbol	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	UNITS
Maximum recurrent 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 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	2.0									A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	50.0									A
Maximum instantaneous forward voltage @ 2.0A (Note 1)	V_F	0.45	0.55		0.7		0.85				V
Maximum reverse current @T_A=25℃	I_R	0.5					0.1				mA
at rated DC blocking voltage @T_A=100℃		10.0									
Typical junction capacitance (Note2)	C_J	170									pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	35									℃/W
Operating junction temperature range	T_J	- 55 ---- + 150					- 55 ---- + 175				℃
Storage temperature range	T_{STG}	- 55 ---- + 150					- 55 ---- + 175				℃

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to ambient

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Ratings AND Charactieristic Curves

FIG.1 -- FORWARD CURRENT DERATING CURVE

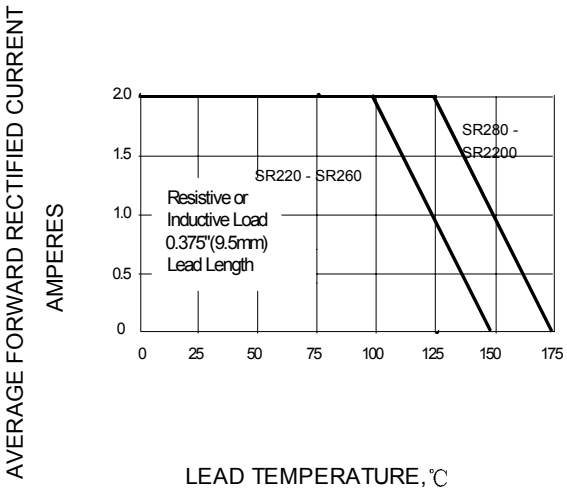


FIG.2 -- PEAK FORWARD SURGE CURRENT

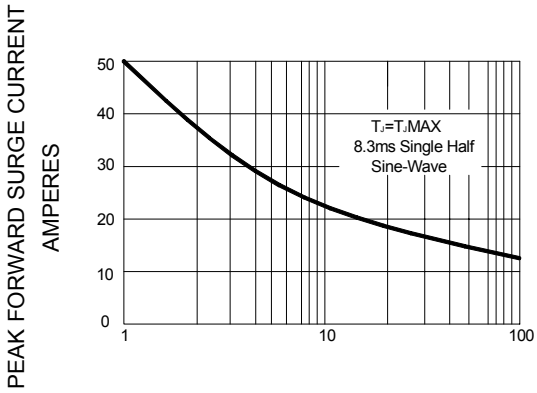


FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

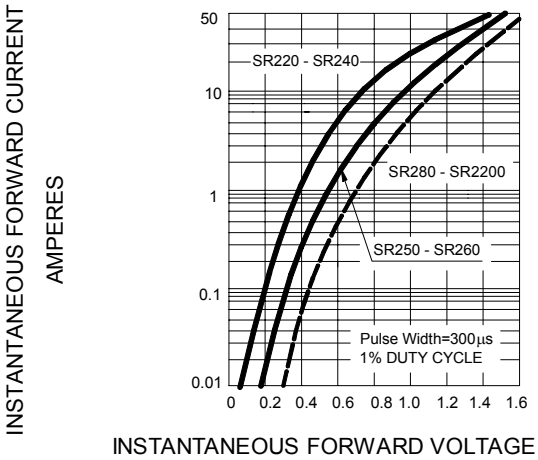
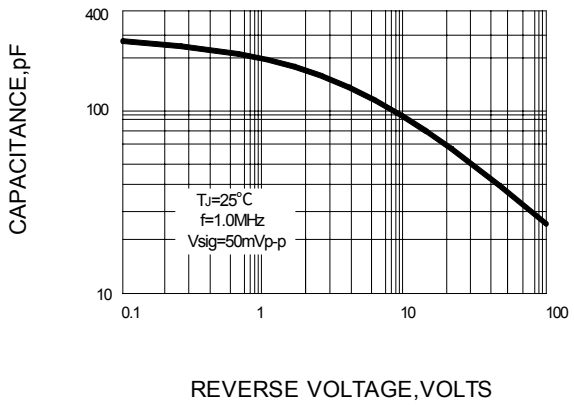


FIG.4 -- TYPICAL JUNCTION CAPACITANCE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-15	3000/AMMO	30000	42X28X31	12.00	10.00