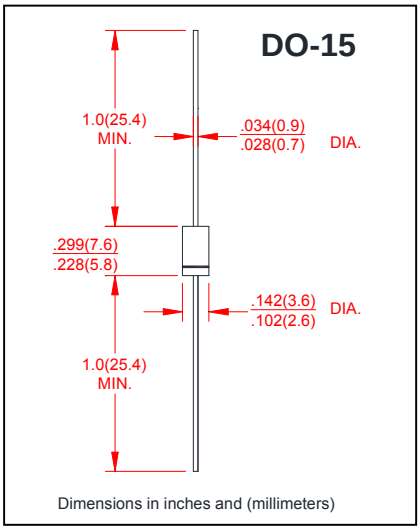
SR220 THRU SR2100

VOLTAGE RANGE **20 to 100 Volts**

CURRENT **2.0 Ampere**



FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High reliability

MECHANICAL DATA

- Case: Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead:MIL-STD-202E, Method 208 guaranteed
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ambient temperature unleSR otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current		$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 2.0A		V_F	0.50			0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A = 25℃	I_R	0.5					0.2		mA
	T_A = 100℃		15					20		
Typical Junction Capacitance (NOTE 1)		C_J	110							pF
Typical Thermal Resistance (NOTE 2)		$R_{\theta JA}$	50							℃/W
Operating Temperature Range		T_J,	-55 to +125							℃
Storage Temperature Range		T_{STG}	-55 to +150							℃

Notes:
1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2.Thermal Resistance from Junction to Ambient at. 375”(9.5mm)lead length, P.C. board mounted.

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

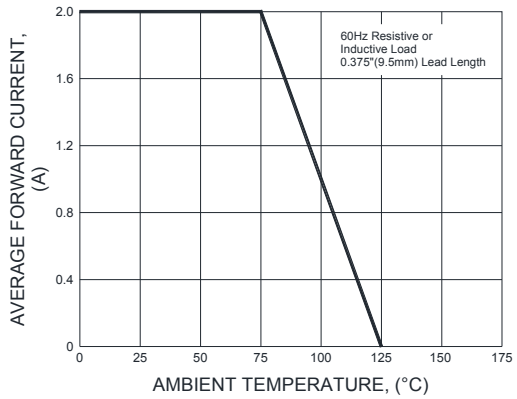


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

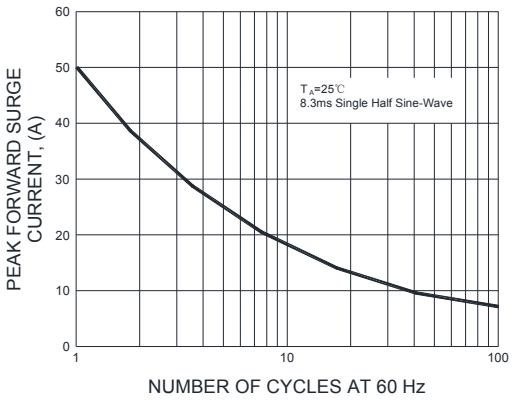


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

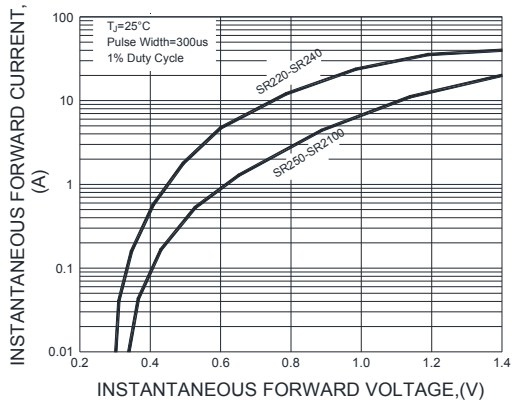


FIG.4-TYPICAL REVERSE
CHARACTERISTICS