

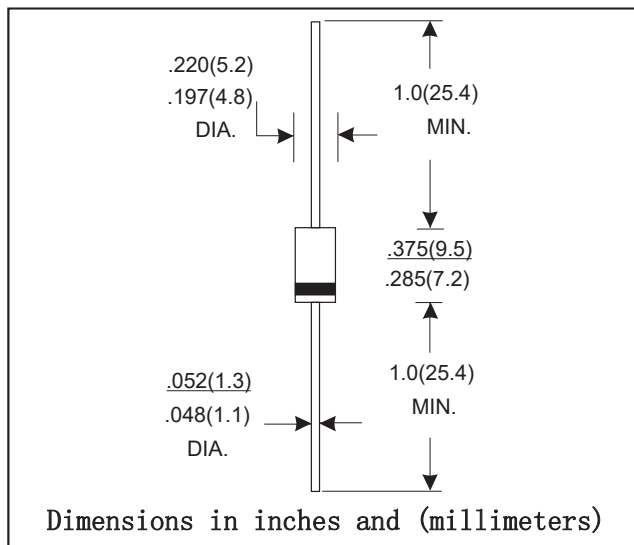
DO-27 SCHOTTKY BARRIER DIODE

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: DO-27 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		SYMBOL	SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5100	SR 5200	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	200	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	57	71	140	V
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	100	200	V
Maximum Average Forward rectified Current0.375"(9.5mm) lead length		I _{F(AV)}	5.0								A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load		I _{FSM}	150.0								A
Maximum instantaneous forward voltage at5.0 A		V _F	0.55			0.70		0.85		0.90	V
Maximum reverse current at rated DC blocking voltage perdiode	@T _A =25℃	I _R	0.5								m A
	@T _A =125℃		50.0			25.0					
Typical Thermal Resistance		R _{θJA}	25								℃/W
Typical junction capacitance		C _j	500.0			400.0					pF
Storage Temperature		T _{STG}	- 55 ---- + 150								℃
Operation Junction Temperature		T _j	- 55 ---- + 120								℃

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

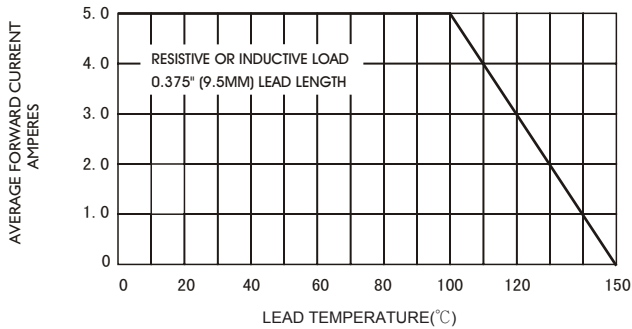


FIG.2-MAXIMUM NON-REPETITIVE PEAK

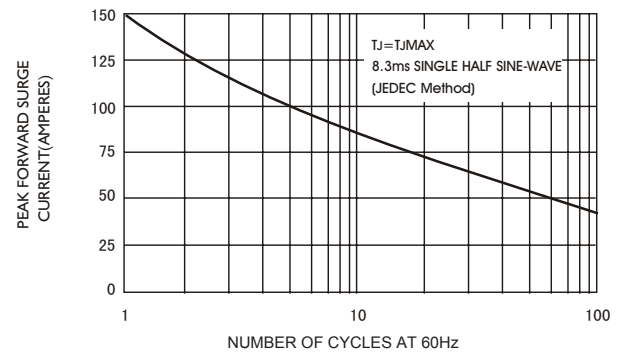


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

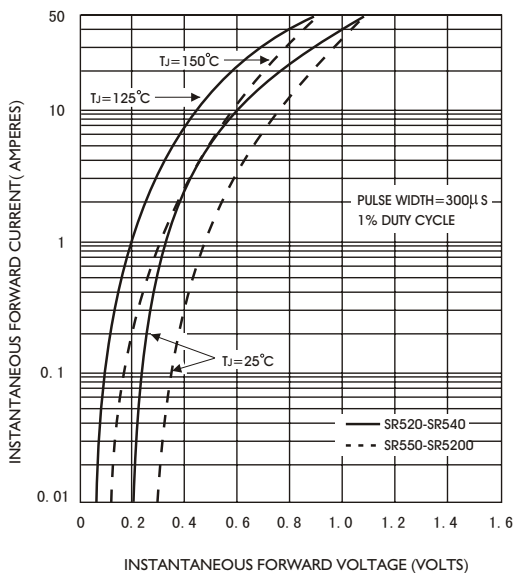


FIG.4-TYPICAL REVERSE CHARACTERISTICS

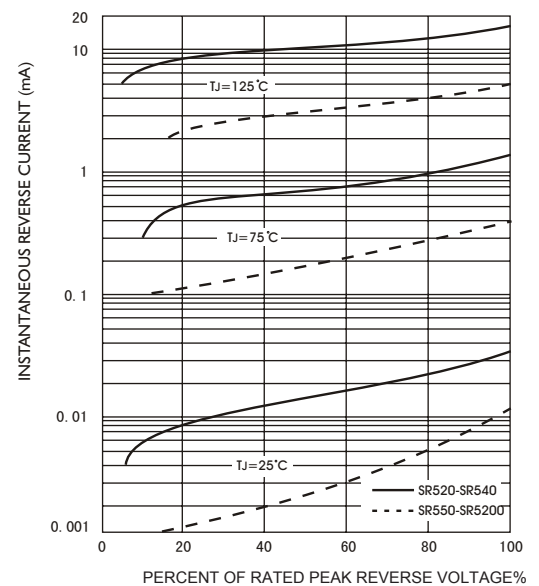


FIG.5-TYPICAL JUNCTION CAPACITANCE

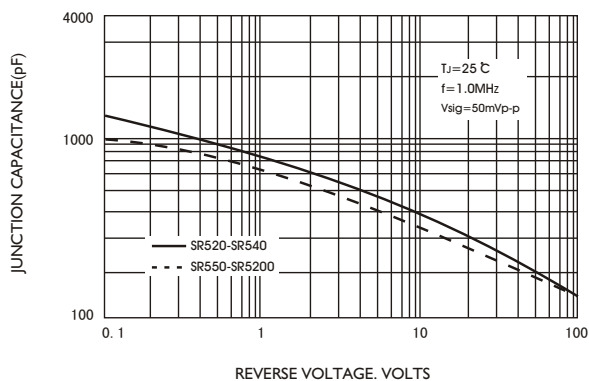


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

