

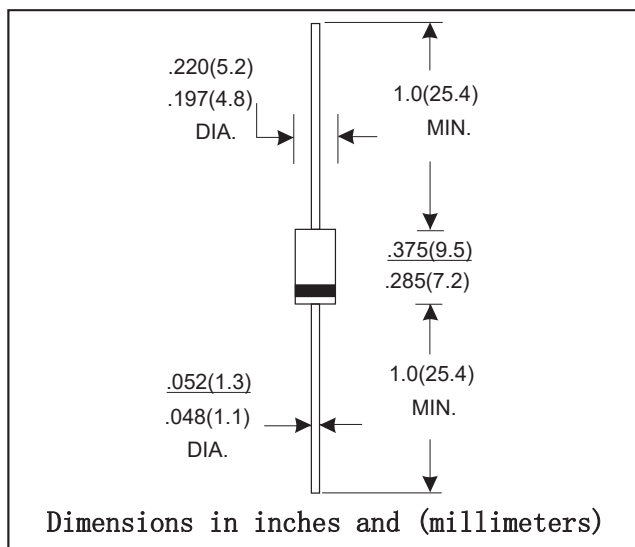
DO-27 SCHOTTKY BARRIER DIODE

FEATURES

- The plastic package carries Underwrites 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	1N5820	1N5821	1N5822	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	V
Maximum RMS voltage		V_{RMS}	14	21	28	V
Maximum DC blocking voltage		V_{DC}	20	30	40	V
Maximum Average Forward rectified Current		$I_{F(AV)}$	3.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	80.0			A
Maximum Instantaneous Forward Voltage at 3.0A		V_F	0.5			V
Maximum reverse current at rated DC blocking voltage	@T _A =25	I_R	0.5			m A
	@T _A =100		50.0			
Typical Junction Capacitance		C_J	250			pF
Typical Thermal Resistance		$R_{\theta JA}$	20			
Storage Temperature		T_{STG}	- 55 ---- + 150			°C
Operation Junction Temperature		T_j	- 55 ---- + 125			°C

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

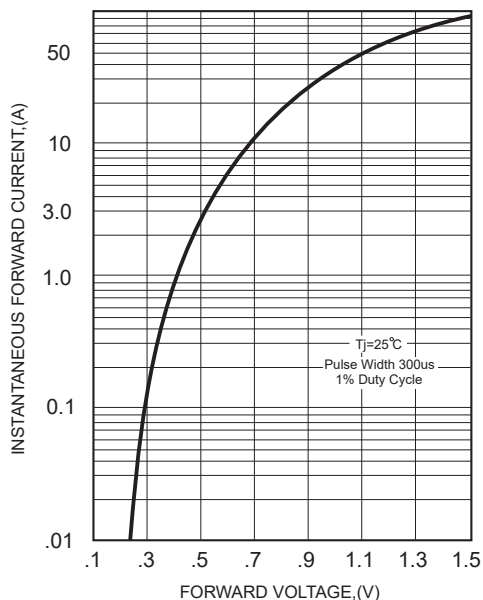


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

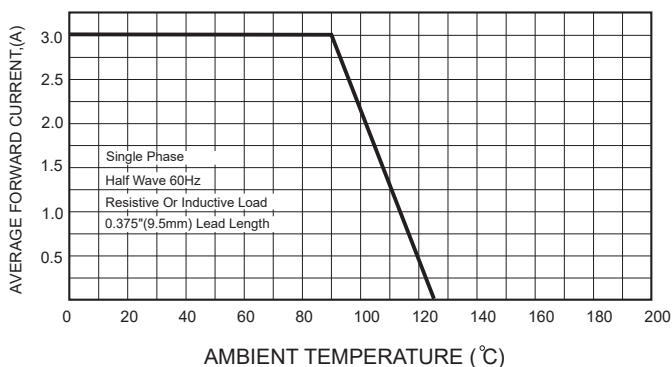


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

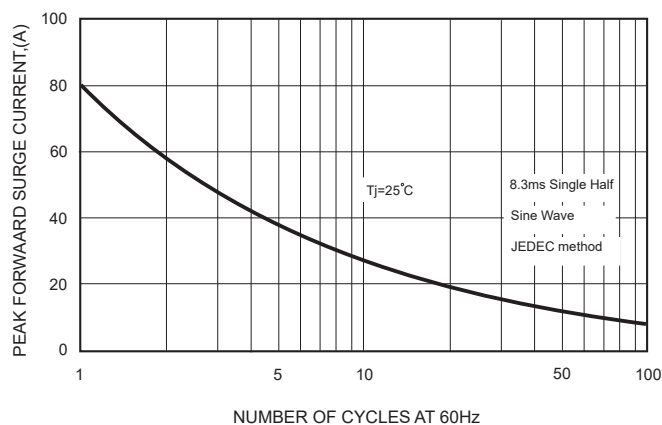


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

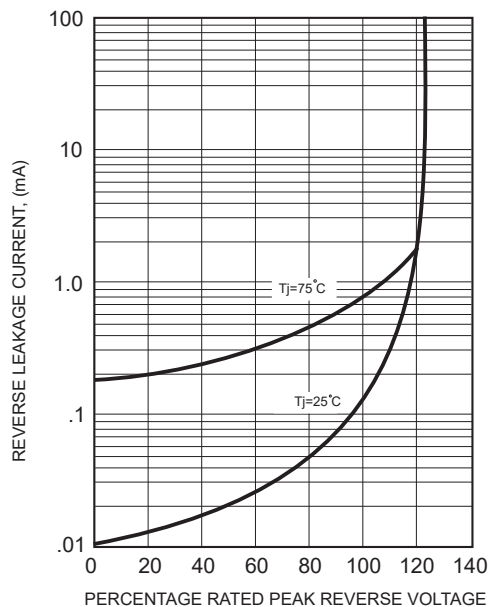


FIG.5-TYPICAL JUNCTION CAPACITANCE

