

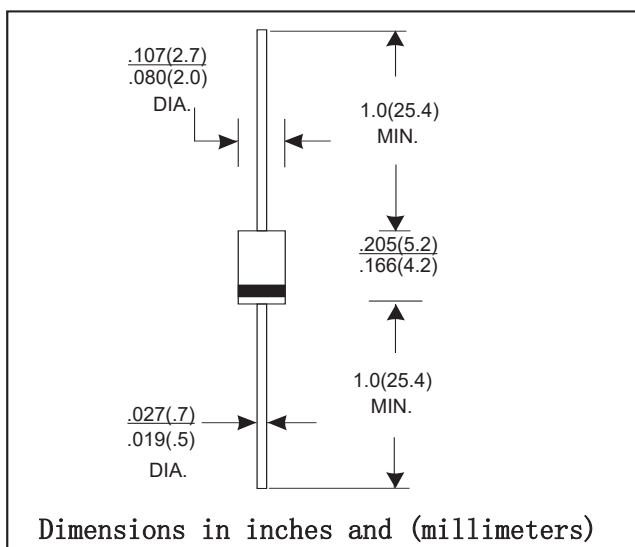
DO-41 SCHOTTKY BARRIER DIODE

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-41 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER	SYMBOL	1N5817	1N5818	1N5819	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 .375"(9.5mm) Lead Length at Ta=90°C	I _(AV)	1.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25			A
Maximum Instantaneous Forward Voltage at 1.0A	V _F	0.45	0.55	0.60	V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=100°C	I _R	0.5 10			mA
Typical Junction Capacitance	C _J	110			pF
Typical Thermal Resistance R _{θJA}	R _{θJC}	80			°C/W
Operating Temperature Range	T _J	-55 — +125			°C
Storage Temperature Range	T _S	-55 — +150			°C

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE FIG.2-MAXIMUM NON-REPETITIVE SURGE

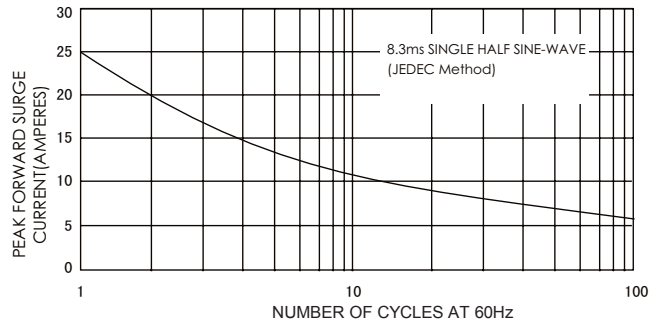
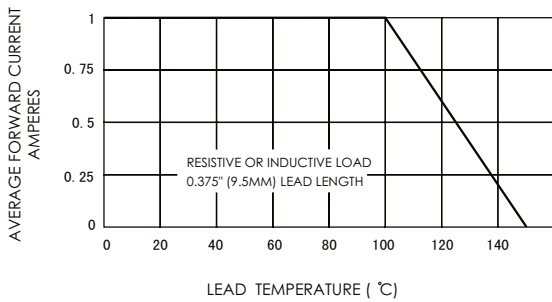


FIG.3-TYPICAL REVERSE CHARACTERISTICS

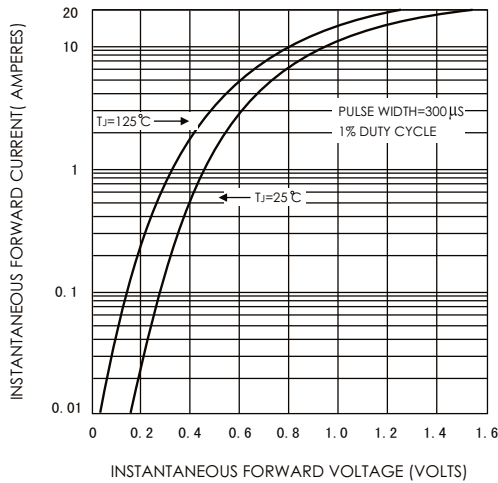


FIG.4-TYPICAL FORWARD CHARACTERISTICS

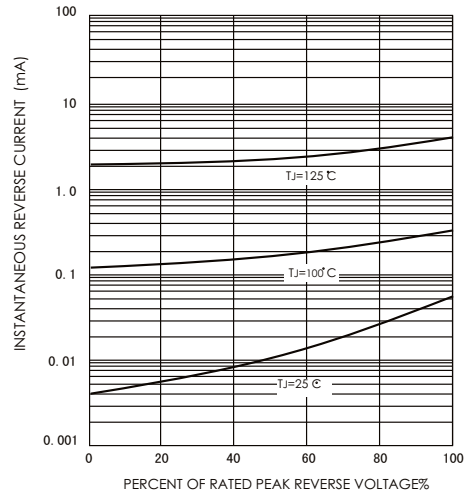


FIG.5-TYPICAL JUNCTION CAPACITANCE INSTANTANEOUS

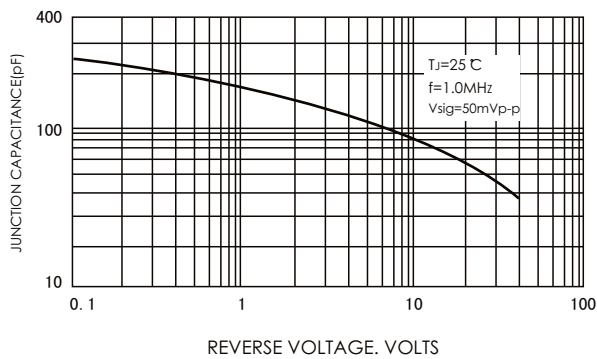


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

