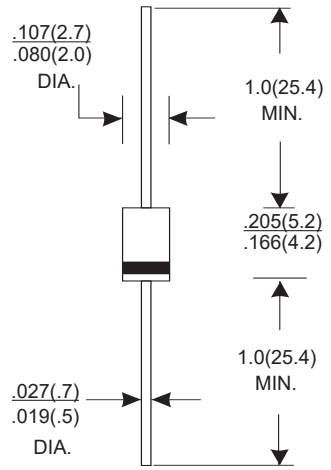
DO-41 FAST RECOVERY RECTIFIERS

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 ℃/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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER	Symbols	Units	1N4933	1N4934	1N4935	1N4936	1N4937
Maximum repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420
Maximum DC blocking voltage	V_{DC}	V	50	100	200	400	600
Maximum average forward rectified current 9.5mm lead length at T_A=55℃	$I_{F(AV)}$	A	1.0				
Peak Forward Surge Current,8.3ms single half-wave superimposed on rated load (JEDEC method)	I_{FSM}	A	30				
Operating junction temperature range	T_J	℃	-65 to +125				
Storage temperature range	T_{stg}	℃	-65 to +150				
Maximum instantaneous forward voltage at1.0A	V_F	V	1.3				
Maximum DC reverse current at rated DC blocking voltage Ta=25℃	I_{R1}	μA	5.0				
Ta=100℃	I_{R2}	μA	100.0				
Maximum reverse recovery time (test conditions:IF=0.5A,IR=1.0A,IRR=0.25A)	Trr	nS	200				

RATINGS AND CHARACTERISTIC CURVES

FIG.1 --FORWARD DERATING CURVE

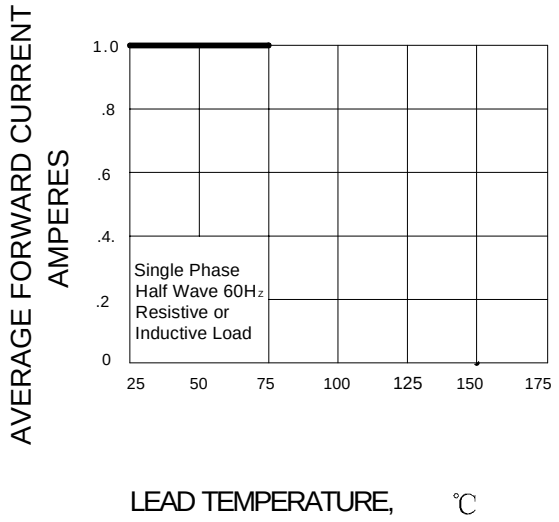


FIG.2– TYPICAL FORWARD CHARACTERISTICS

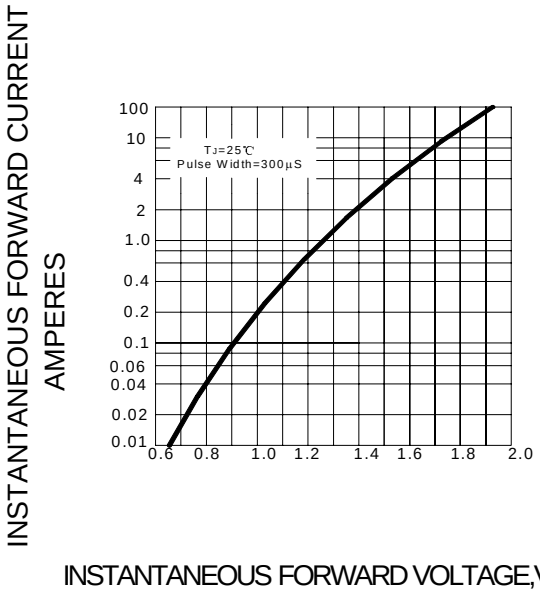


FIG.3-PEAK FORWARD SURGE CURRENT

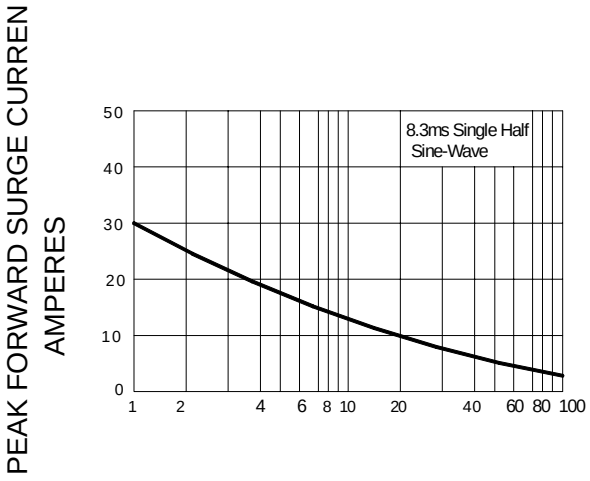


FIG.4- TYPICAL JUNCTION CAPACITANCE