

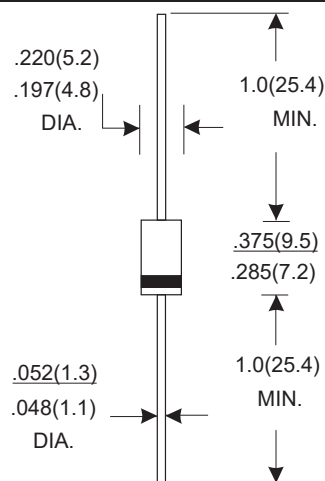
DO-27 FAST RECOVERY RECTIFIERS

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 °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

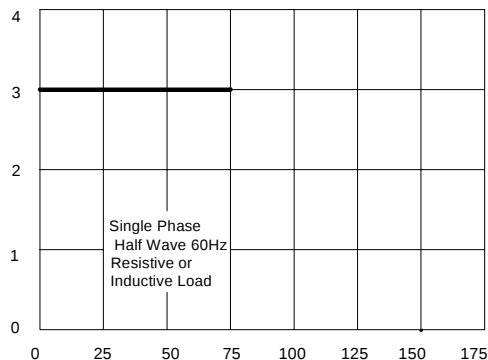
@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		Symbols	Units	FR301	FR302	FR303	FR304	FR305	FR306	FR307
Maximum repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Maximum RMS voltage		VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking voltage		VDC	V	50	100	200	400	600	800	1000
Maximum average forward rectified current 9.5mm lead length at TA=55°C		IF(AV)	A	3.0						
Peak Forward Surge Current,8.3ms single half-wave superimposed on rated load(JEDEC method)		IFSM	A	200						
Operating junction temperature range		TJ	°C	-55to+125						
Storage temperature range		Tstg	°C	-55to+150						
Maximum instant aneous forward voltage at 3.0A		VF	V	1.3Max.						
Maximum DC reverse current at rated DC blocking voltage	Ta=25°C	IR1	μA	10.0Max.						
	Ta=100°C	IR2	μA	150.0Max						
Maximum reverse recovery time (test conditions:IF=0.5A,IR=1.0A,IRR=0.25A)		Trr	nS	150				250	500	

RATINGS AND CHARACTERISTIC CURVES

FIG.1 -- FORWARD DERATING CURVE

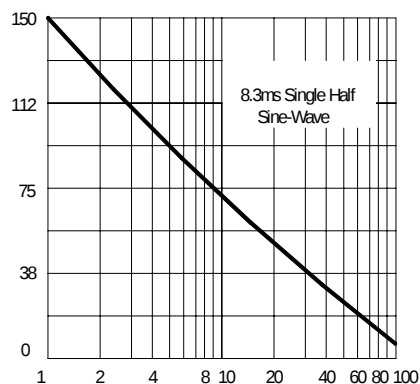
AVERAGE FORWARD RECTIFIED CURRENT
AMPERES



LEAD TEMPERATURE, °C

FIG.2--PEAK FORWARD SURGE CURRENT

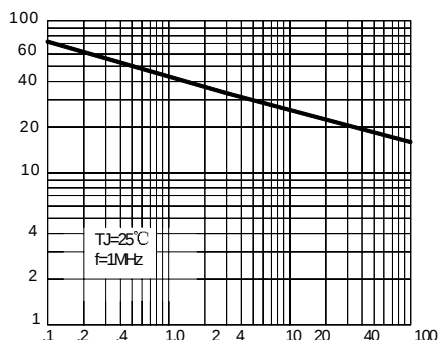
PEAK FORWARD SURGE CURRENT
AMPERES



NUMBER OF CYCLES AT 60 Hz

FIG.3--TYPICAL JUNCTION CAPACITANCE

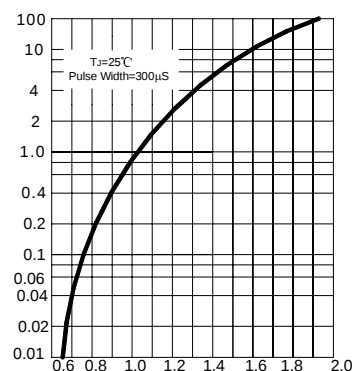
JUNCTION CAPACITANCE,pF



REVERSE VOLTAGE,VOLTS

FIG.4 --TYPICAL FORWARD CHARACTERISTIC

INSTANTANEOUS FORWARD CURRENT
AMPERES



INSTANTANEOUS FORWARD VOLTAGE,VOLTS