

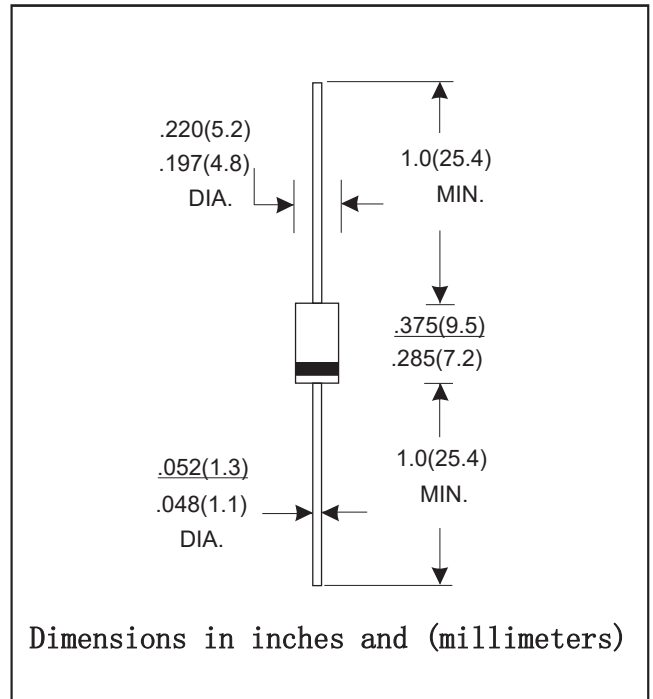
DO-27 PLASTIC SILICON RECTIFIERS

FEATURES

- Low cost
- Low leakage
- low forward voltage drop
- High cleaned with Alcohol, isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- Case: DO-27, molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	UF	UF	UF	UF	UF	UF	UF	UF	UF	UNITS
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	3.0									A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	I_{FSM}	150.0									A
Maximum instantaneous forward voltage @ 3.0 A	V_F	1.0					1.7				V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	10.0					100.0				μA
Maximum reverse recovery time	t_{rr}	50					75				ns
Typical junction capacitance	C_J	45									pF
Typical thermal resistance	$R_{\theta JA}$	20									$^\circ C/W$
Operating junction temperature range	T_J	- 55 ----- + 125									$^\circ C$
Storage temperature range	T_{STG}	- 55 ----- + 150									$^\circ C$

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

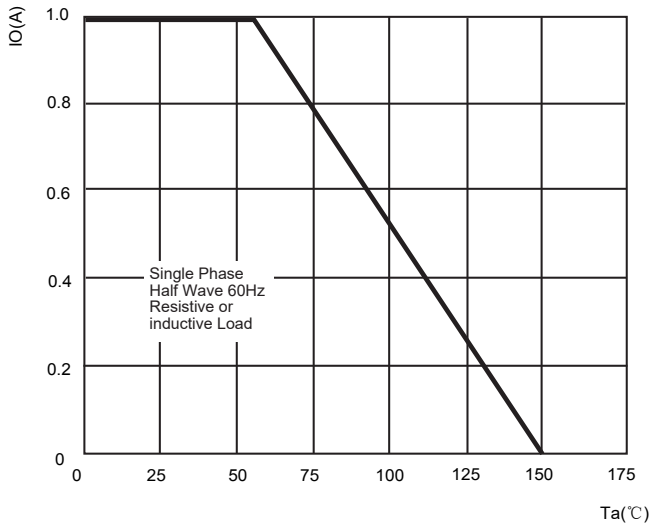


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

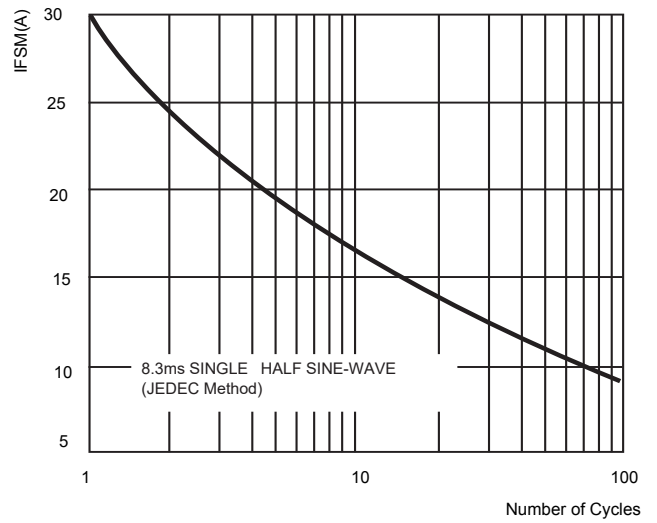


FIG.3: TYPICAL FORWARD CHARACTERISTICS

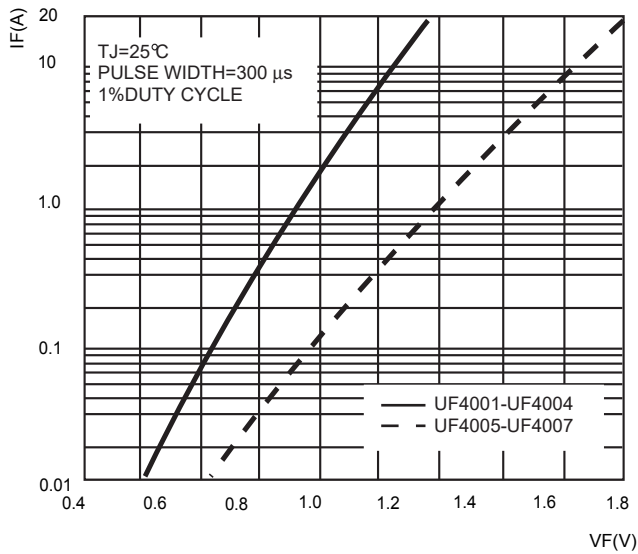


FIG.4: TYPICAL REVERSE CHARACTERISTICS

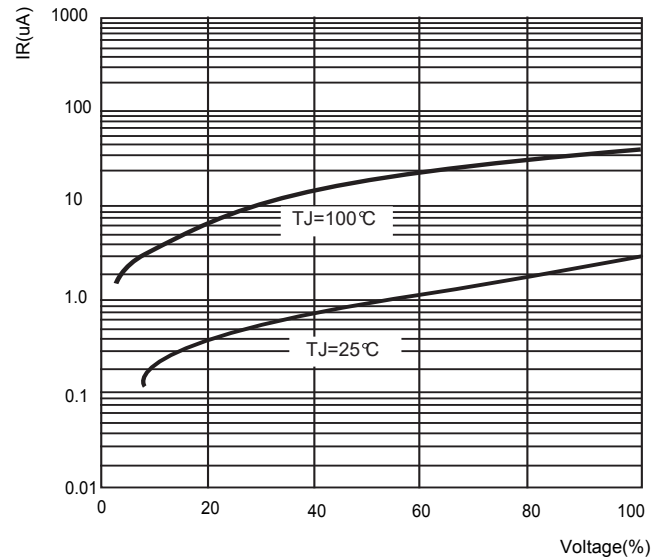


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

