

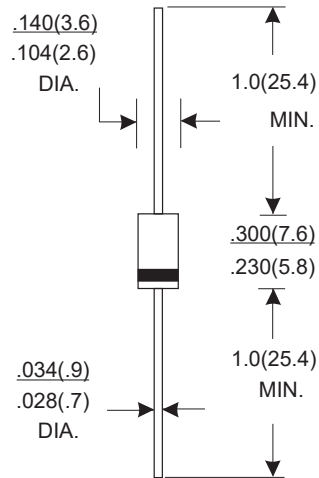
DO-15 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High reliability
- Low forward voltage drop
- Low power loss, high efficiency
- High forward surge current capability
- 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-15 plastic molded
- Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- Polarity:Color band denotes cathode end
- Mounting Position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	HER	HER	HER	HER	HER	HER	HER	HER	UNITS
		151	152	153	154	155	156	157	158	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) Lead Length at Ta=50°C	$I_{F(AV)}$	1.5								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0								A
Maximum Instantaneous Forward Voltage at 1.5A	V_F	1.0		1.3		1.7			V	
Maximum reverse current at rated DC blocking voltage	@T _A =25°C	5.0								μA
	@T _A =100°C	150.0								
Maximum reverse recovery time (Note1)	t_{rr}	50				75				ns
Typical junction capacitance (Note2)	C_J	30				30				pF
Typical thermal resistance	$R_{\theta JA}$	50								°C/W
Operating junction temperature range	T_j	- 55 ---- + 150								°C
Storage temperature range	T_{STG}	- 55 ---- + 150								°C

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

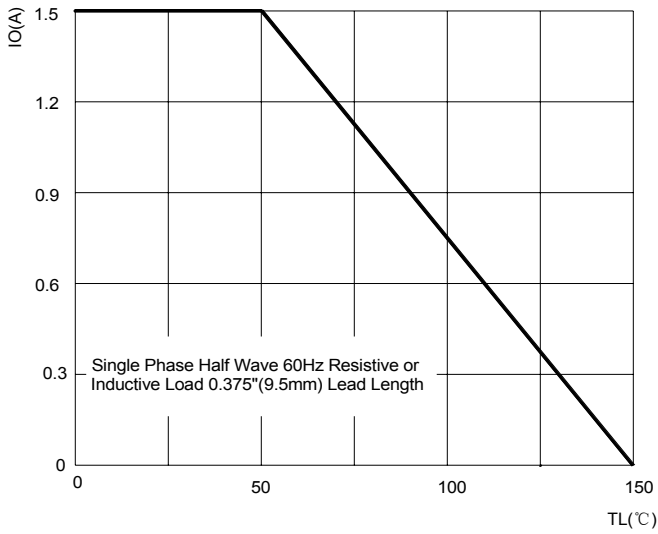


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

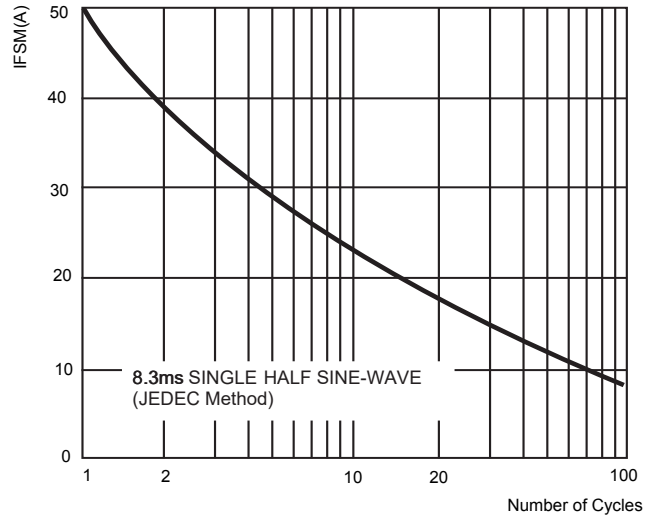


FIG.3: TYPICAL FORWARD CHARACTERISTICS

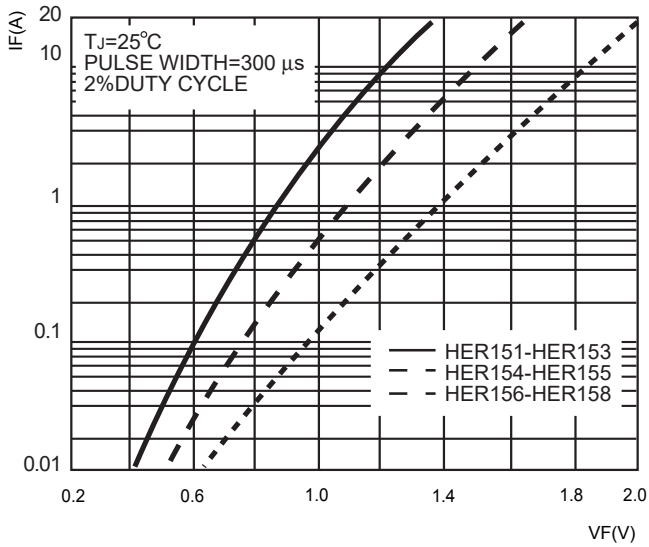


FIG.4: TYPICAL REVERSE CHARACTERISTICS

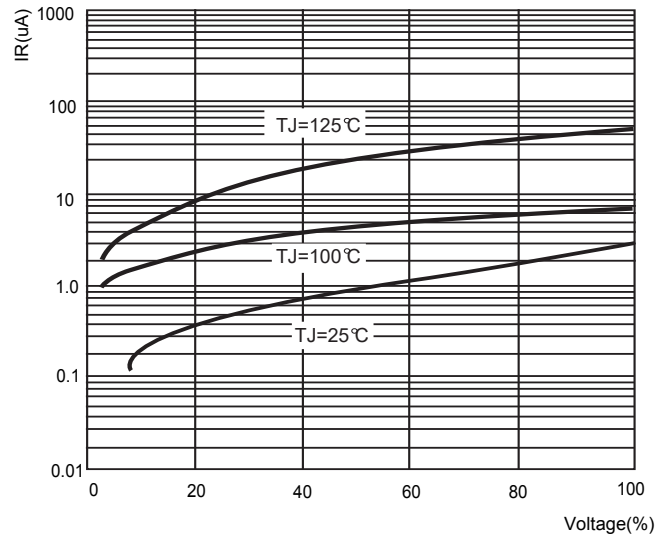


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

