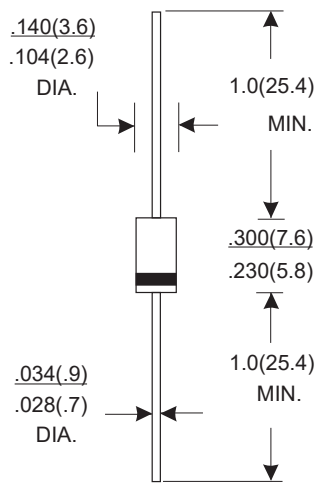
DO-15 PLASTIC SILICON RECTIFIERS

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 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	UNITS
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=55℃	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load @T_j=125℃	I_{FSM}	60.0								A
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.0			1.3		1.7			V
Maximum reverse current at rated DC blocking voltage @T_A=25°C	I_R	5.0								μA
Maximum reverse current at rated DC blocking voltage @T_A=100°C	I_R	100.0								μA
Maximum reverse recovery time (Note1)	t_{rr}	50					75			ns
Typical junction capacitance (Note2)	C_J	50					30			pF
Typical thermal resistance	$R_{\theta JA}$	50								℃/W
Operating junction temperature range	T_j	- 55 ---- + 125								℃
Storage temperature range	T_{STG}	- 55 ---- + 150								℃

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

2.Measured with IF=0.5A, IR=1A, Irr=0.25A.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

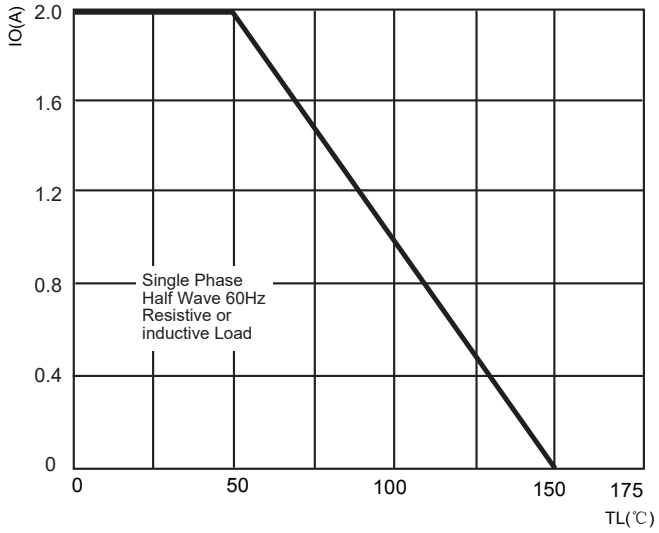


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

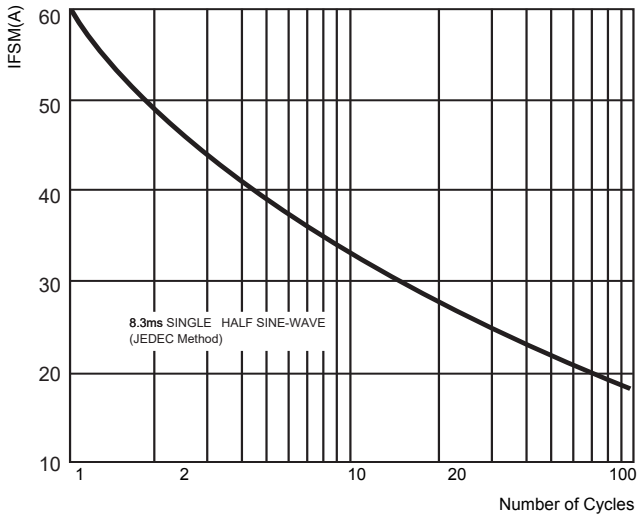


FIG.3: TYPICAL FORWARD CHARACTERISTICS

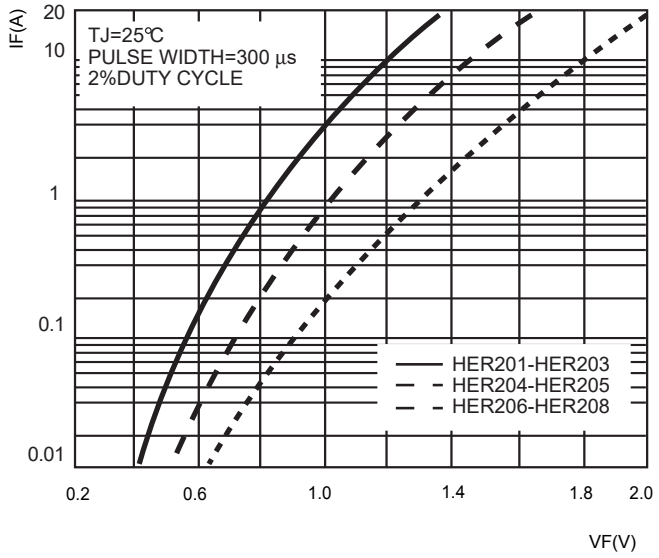


FIG.4：TYPICAL REVERSE CHARACTERISTICS

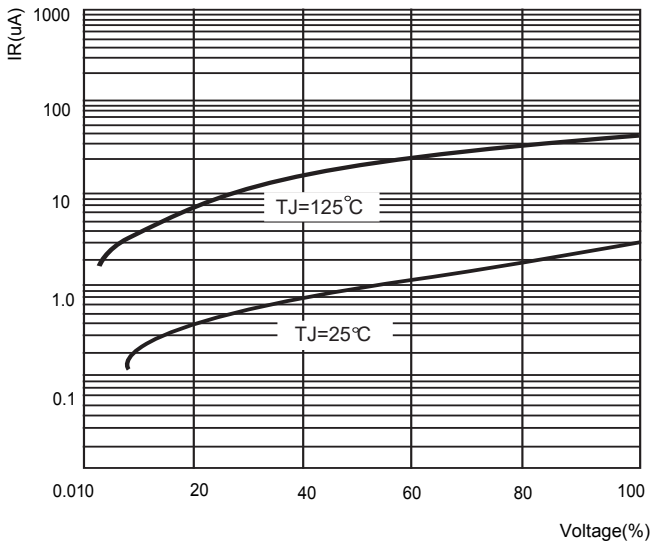


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time