

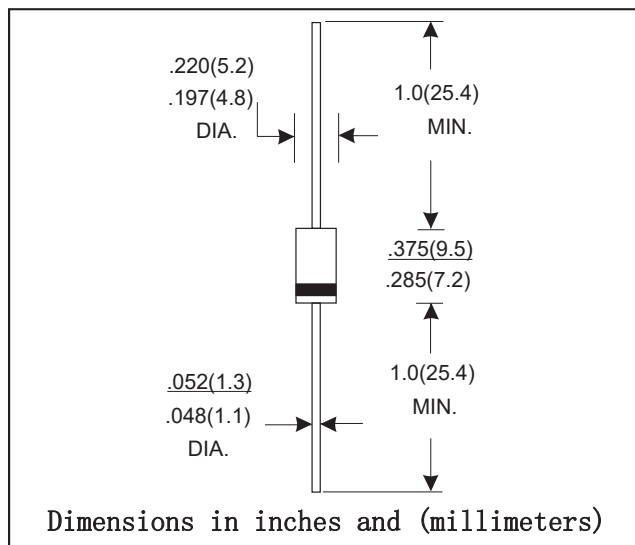
DO-27 High Efficient Rectifier Diodes

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)

Parameter		Symbol	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	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)}	5.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	200.0								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℃	I _R	10.0								μ A
	@T _A =100℃		150.0								
Maximum reverse recovery time		t _{rr}	50					75			ns
Typical junction capacitance		C _J	85					60			pF
Typical thermal resistance		R _{θJA}	30								℃/W
Operating junction temperature range		T _j	- 55 ---- + 150								℃
Storage temperature range		T _{STG}									

RATINGS AND CHARACTERISTIC CURVES

FIG.1: I_o - T_a Curve

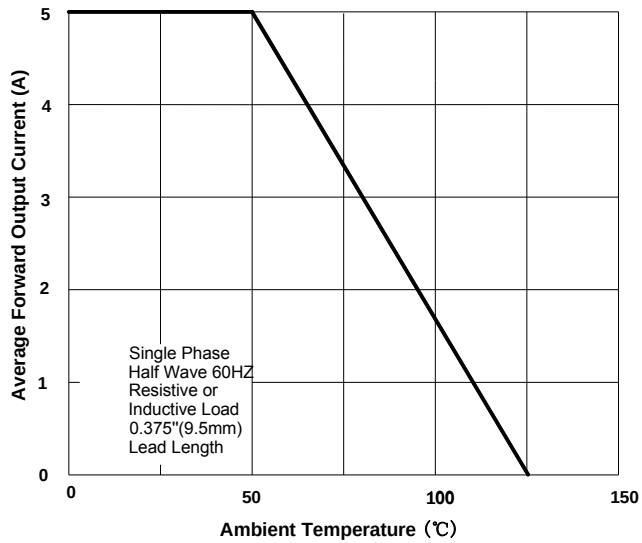


FIG.2: Surge Forward Current Capability

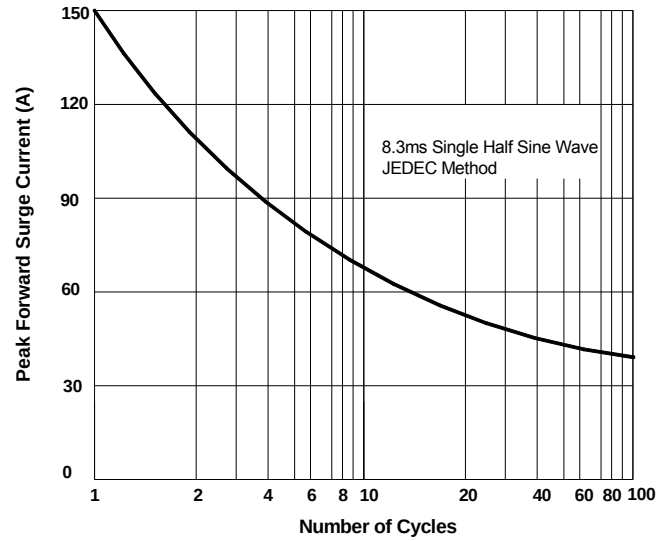


FIG.3: Forward Voltage

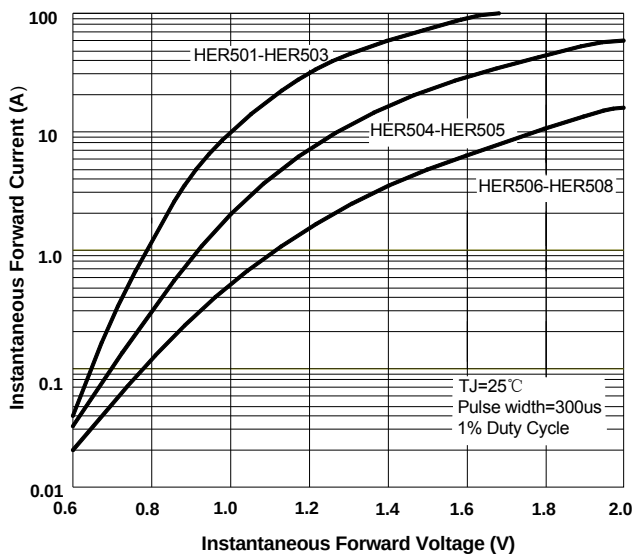


FIG.4: Typical Reverse Characteristics

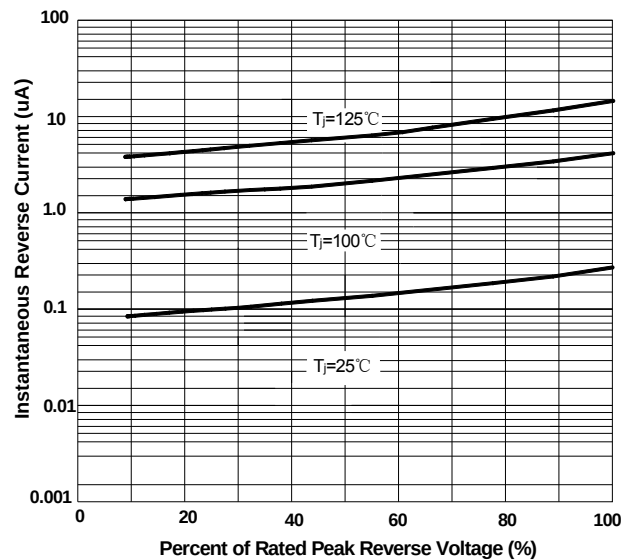


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

