

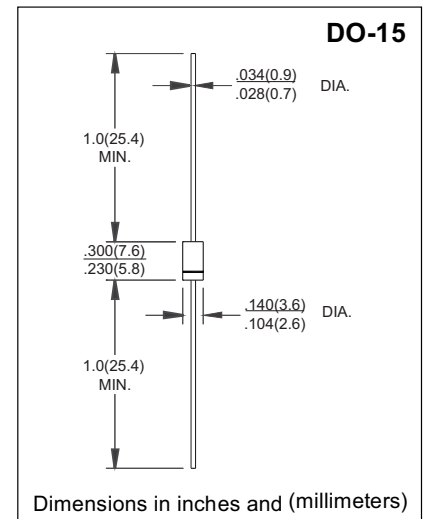
HIGH EFFICIENCY RECTIFIER

FEATURES

- Low cost construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.014ounce, 0.39 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load For capacitive load derate current by 20%

PARAMETER	SYMBOLS	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at $T_A=50^\circ\text{C}$	$I_{(AV)}$	2.0								Amp
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	60								Amps
Maximum Instantaneous Forward Voltage @ 2.0A	V_F	1.0		1.3		1.5		1.7		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25^\circ\text{C}$								μA
		$T_A = 125^\circ\text{C}$								
Maximum Full Load Recovery Current,full cycle average 0.375"(9.5mm)lead length at $T_L=55^\circ\text{C}$	$I_{R(AV)}$	100								μA
Maximum Reverse Recovery Time(NOTE 1)	t_{rr}	50				75				ns
Typical Thermal Resistance (NOTE 2)	C_J	30				20				PF
Typical Thermal Resistance(NOTE 3)	$R_{\theta JA}$	40								$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J, T_{STG}	(-55 to +150)								$^\circ\text{C}$

Notes:

1. Test Condition: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $IRR=0.25\text{A}$
2. Measured at 1 MHz and applied reverse of 4.0 volts.
3. Thermal resistance from junction to ambient with .375"(9.5mm)lead length, P.C.B. mounted.

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RATING AND CHARACTERISTIC CURVES HER201 - HER208

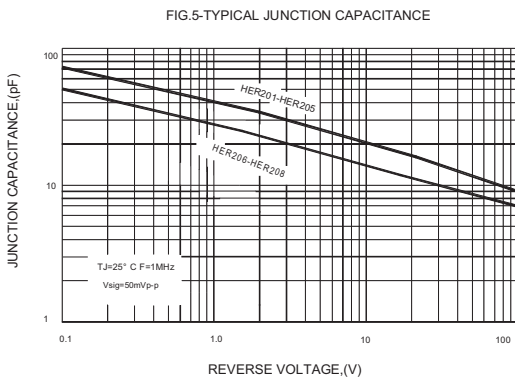
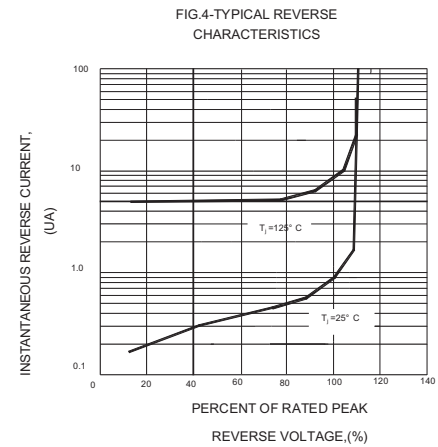
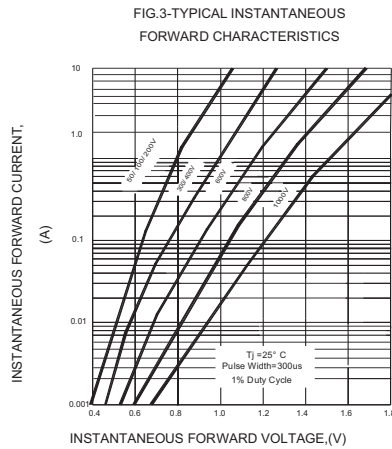
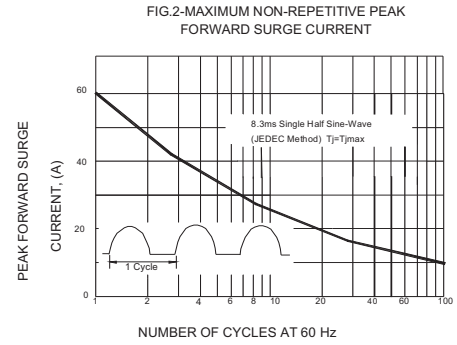
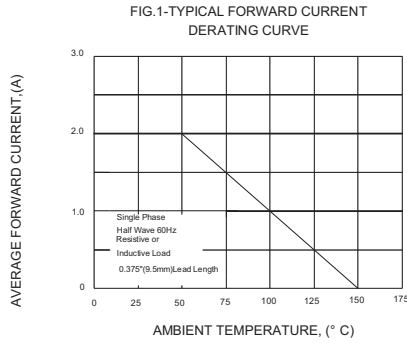
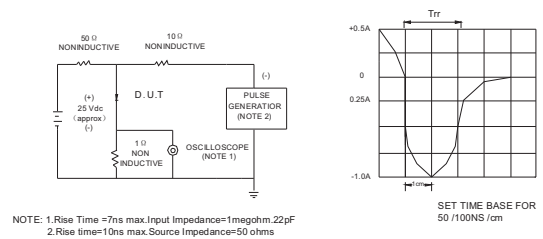


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.