

HER203 THRU HER208

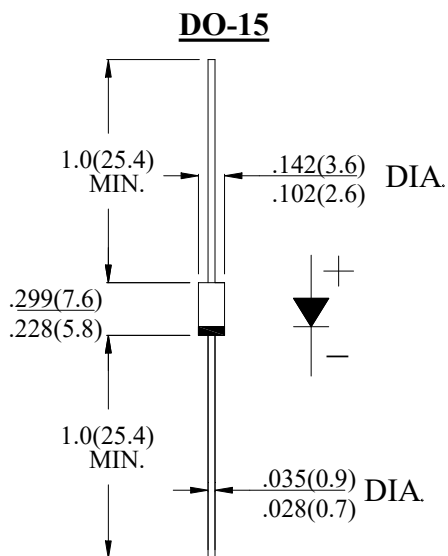
2.0AMP. GLASS PASSIVATED HIGH EFFICIENT RECTIFIERS

FEATURE

- . Low leakage
- . Low forward voltage drop
- . High current capability
- . High surge capability
- . High reliability
- . High temperature soldering guaranteed
260°C /10sec / 0.375" lead length at 5 lbs tension

MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any



Dimensions in inches and (millimeters)

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%

Type Number	SYM BOL	HER203	HER204	HER205	HER208	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	300	400	1000	V
Maximum RMS Voltage	V_{RMS}	140	210	280	700	V
Maximum DC Blocking Voltage	V_{DC}	200	300	400	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length	$I_{F(AV)}$	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	60				A
Maximum forward Voltage at 2.0A DC	V_F	1.0	1.3		1.7	V
Maximum DC Reverse Current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	I_R	5.0				μA
		200				μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	50			75	nS
Typical Junction Capacitance (Note 2)	C_J	15			10	pF
Typical Thermal Resistance (Note 3)	$R_{(JC)}$	30				$^\circ\text{C/W}$
Storage Temperature	T_{STG}	-55 to +150				$^\circ\text{C}$
Operating Junction Temperature	T_J	-55 to +150				$^\circ\text{C}$

Note:

1. Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
2. Measured at 1MHz and applied reverse voltage of 4.0 volts d.c.
3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

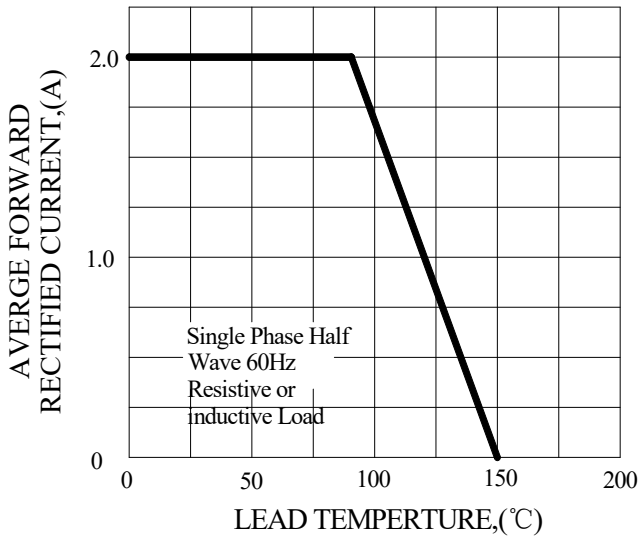


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

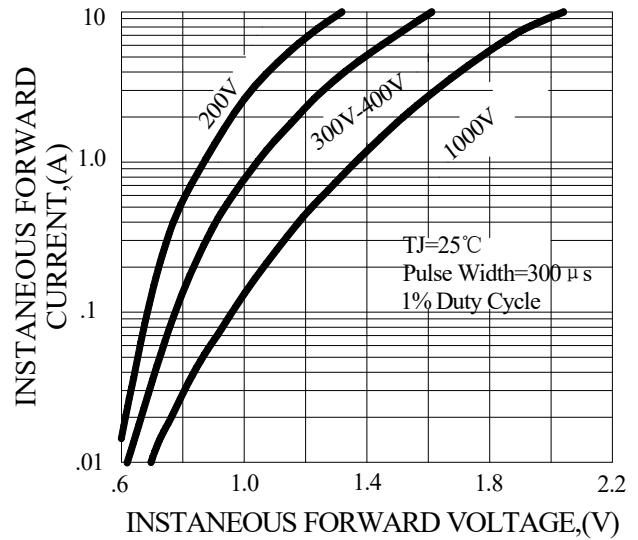


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

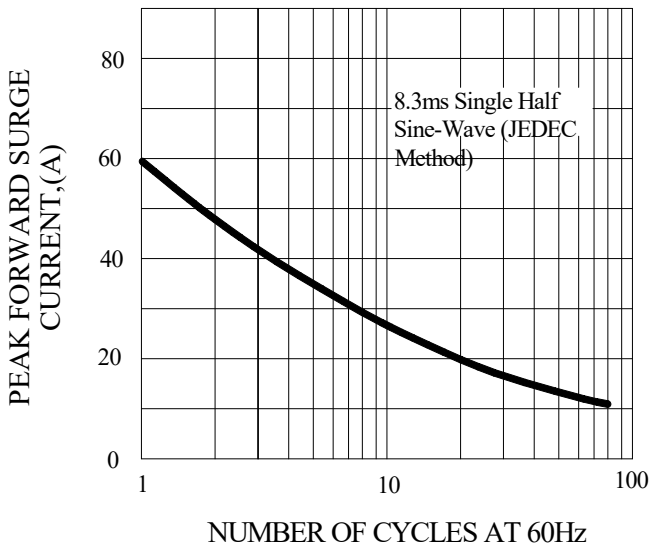


FIG.4-TYPICAL REVERSE CHARACTERISTICS

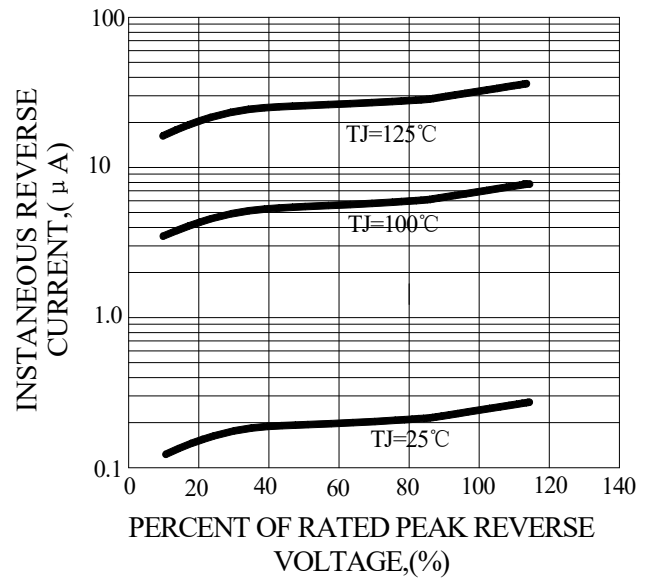
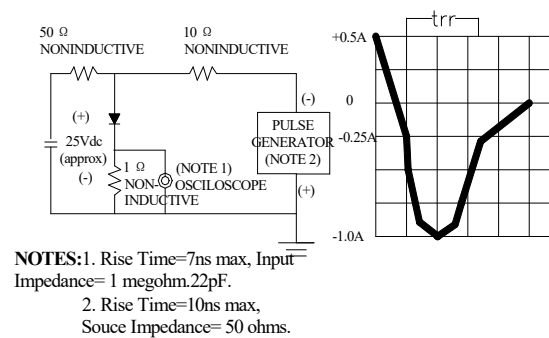
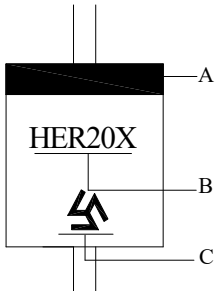


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



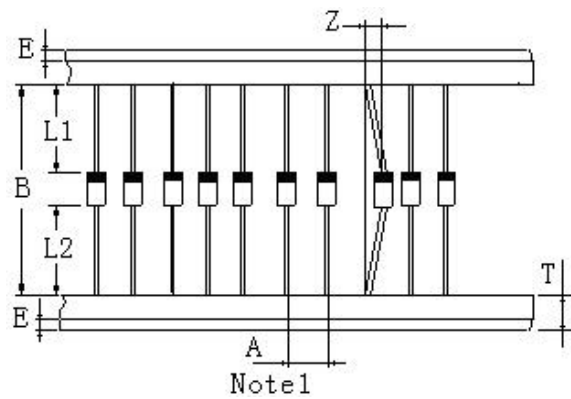
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Color Band Denotes Cathode
B	Product Name
C	Trademark

3、Packaging



ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max
Component	A	5.0±0.5	0.2±0.02
Inner tap	B	52.0~53.5	2.06~2.11
NOTE: Each component lead shall be sandwiched between tapes for a minimum of 2.5mm (0.1inch)			