

HIGH EFFICIENCY RECTIFIER
VOLTAGE 1200 Volts CURRENT 10 Ampere

FEATURES

- * Low power loss,high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High reliability
- * High current surge

MECHANICAL DATA

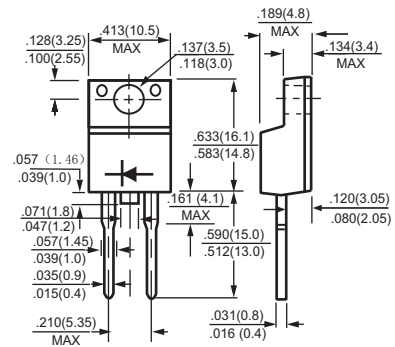
- * Epoxy: Device has UL flammability classification 94V-O
- * Case: ITO-220A Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



ITO-220A



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	IHER1012	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	Volts
Maximum RMS Voltage	V_{RMS}	840	Volts
Maximum DC Blocking Voltage	V_{DC}	1200	Volts
Maximum Average Forward Rectified Current at $T_C = 100^\circ C$	I_o	10	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	Amps
Current Squared Time	I^2t	93.38	A^2/Sec
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	5	$^\circ C/W$
Operating Temperature Range	T_J	-55 to + 150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to + 150	$^\circ C$

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	IHER1012	UNITS
Maximum Instantaneous Forward Voltage at 10A DC	V_F	3.5	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ C$	10	μA
	@ $T_A = 125^\circ C$	500	
Maximum Reverse Recovery Time (Note 2)	t_{rr}	75	nSec

- NOTES : 1. Thermal Resistance : At 9.5mm lead length,PCB mounted.
2. Test Conditions: $I_F = 0.5A$, $I_R = -1.0A$, $I_{RR} = -0.25A$.
3. " ROHS compliant"

RATING AND CHARACTERISTICS CURVES (IHER1012)

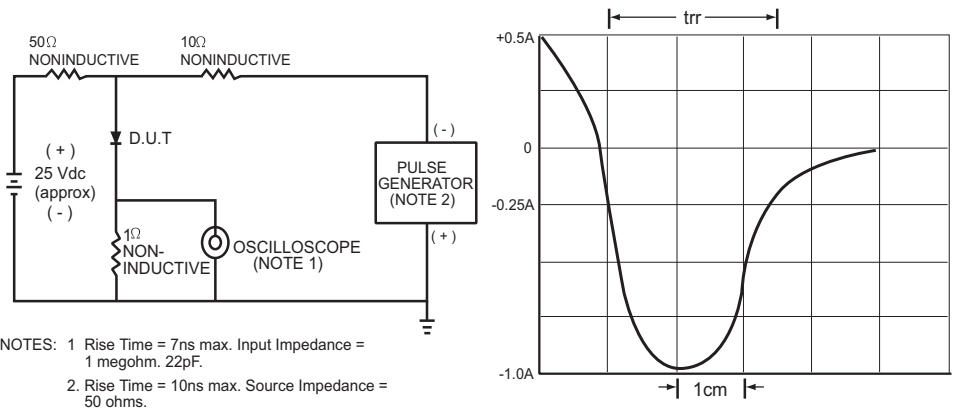


FIG.1 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

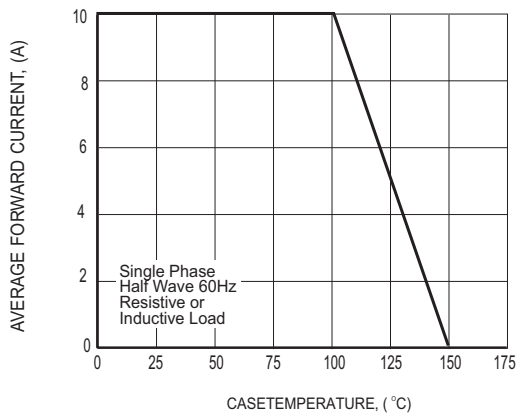


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

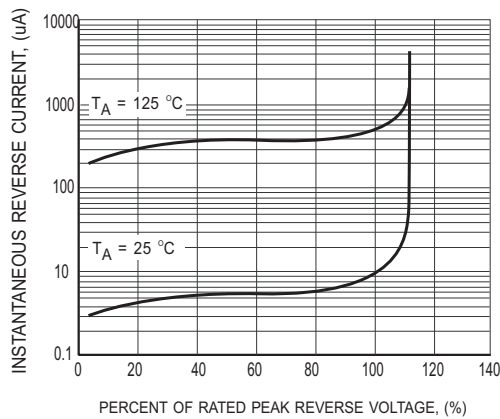


FIG.3 MAXIMUM REVERSE CHARACTERISTICS

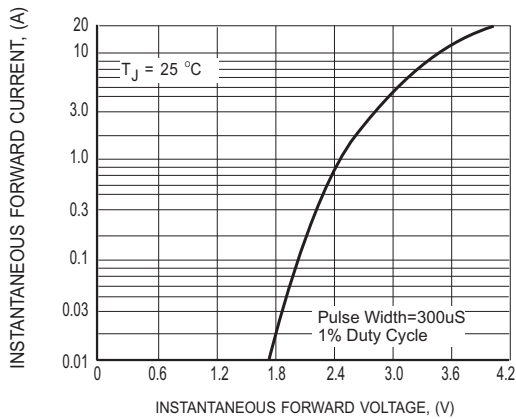


FIG.4 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

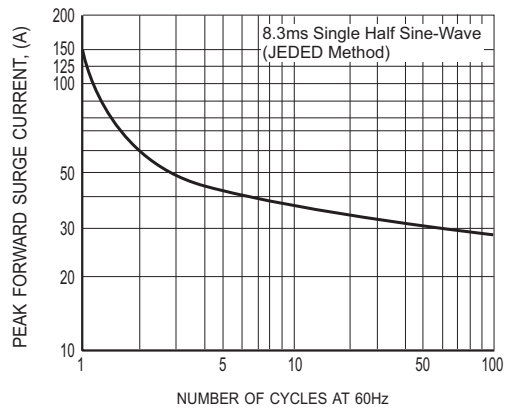
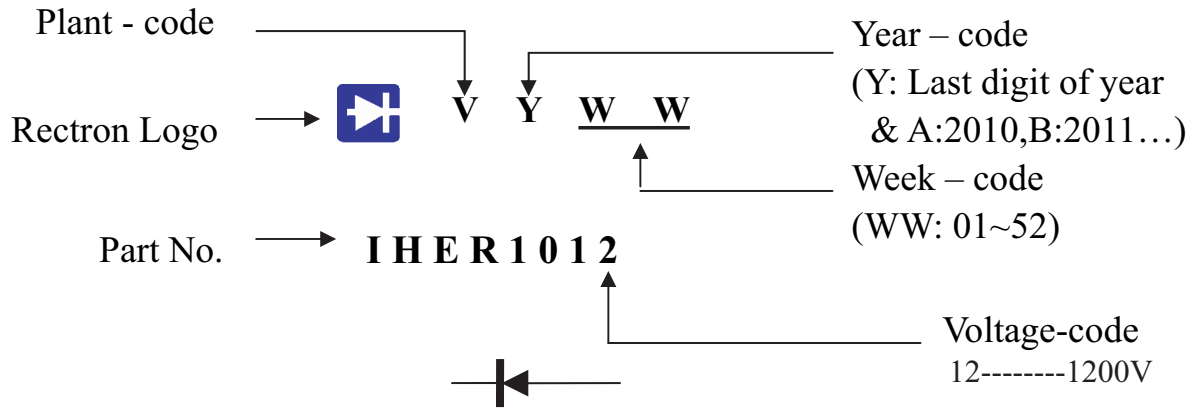


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
(I)TO-220/TO-220(A)	-C	2,000	550*140*92	572*308*120	4,000	11.80

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