1U1 THRU 1U7

新芯微电子
NewChip
Microelectronics

GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0Ampere

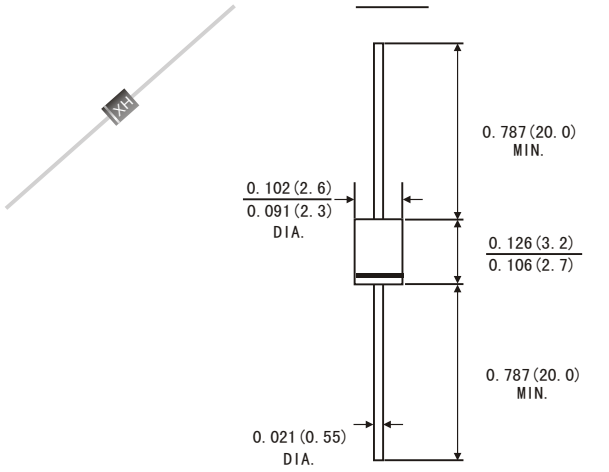
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low forward voltage drop
- High current capability, High reliability
- Low power loss, high efficiency
- High surge current capability
- High speed switching, Low leakage
- High temperature soldering guaranteed:260 ˚C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- *Case*: R-1 molded plastic body
- *Terminals*: Lead solderable per MIL-STD-750,method 2026
- *Polarity*: Color band denotes cathode end
- *Mounting Position*: Any
- *Weight*: 0.007ounce, 0.19 gram

R-1



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	1U1	1U2	1U3	1U4	1U5	1U6	1U7	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T_A=50℃	$I_{(AV)}$	1.0							Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.0			1.3	1.7			Volts
Maximum DC Rreverse Current at rated DC blocking voltage	I_R	5.0							μA
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at TL=55℃		100							
Maximum reverse recovery time(Note 1)	Trr	50				70			ns
Typical junction Capacitance(Note 2)	C_J	20				15			pF
Operating and storage temperature range	T_J T_{STG}	-65 to +150							℃

Notes: 1.Test conditions:I_F=0.5A,I_R=1.0A,Irr=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0V Volts

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FLG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

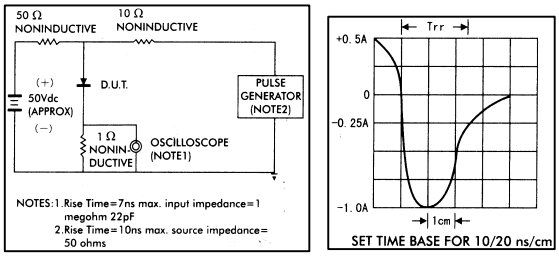

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

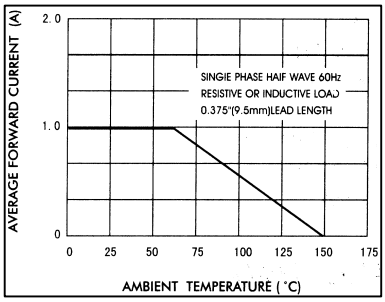

FIG.3-TYPICAL FORWARD CHARATERISTICS

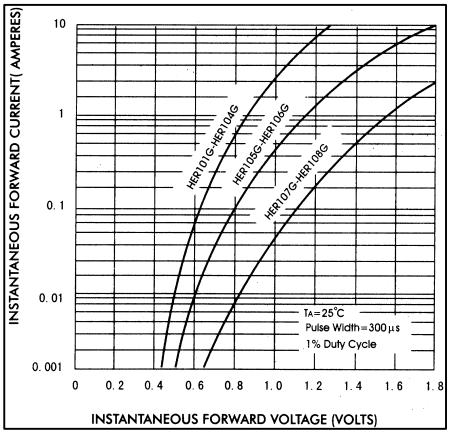

FIG.4-TYPICAL REVERSE CHARACTERISTICS

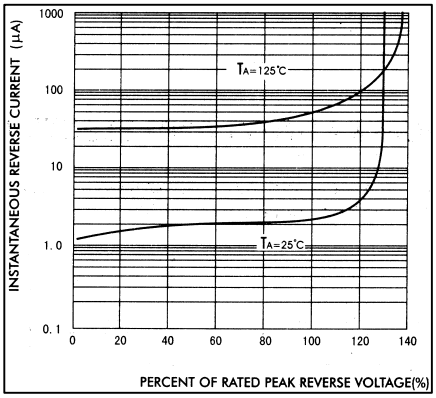

FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

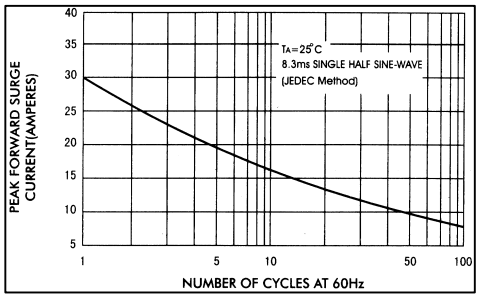

FIG.6-TYPICAL JUNCTION CAPACITANCE