

HIGH VOLTAGE ASSEMBLED RECTIFIER

VOLTAGE RANGE 30000 Volts CURRENT 30 mAmperes

FEATURES

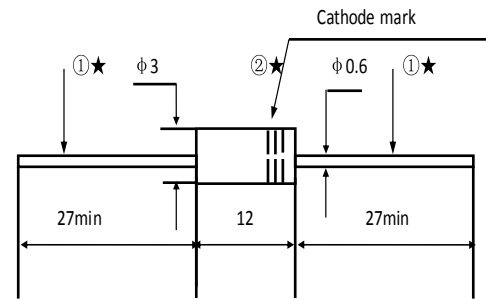
- * Low cost
- * Low leakage
- * Isolated case
- * Mounting position: Any
- * Low forward voltage drop

MECHANICAL DATA

- * Epoxy : Device has UL flammability classification 94V-0
- * Marking: Just cathode band
- * Packaging: 200Pcs/Bag



HVML



Dimensions in millimeters

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%.

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

RATINGS	SYMBOL	HVM30L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	K Volts
Maximum RMS Voltage	VRMS	21	K Volts
Maximum DC Blocking Voltage	VDC	30	K Volts
Maximum Average Forward Rectified Current at TA = 50°C	IO	30	mAmps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	3.0	Amps
Typical Current Squared Time	I ² t	0.037	A ² Sec
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	HVM30L	UNITS
Maximum Instantaneous Forward Voltage at 30mA DC	VF	48	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	1.0	uAmps
Maximum Reverse Recovery Time , IF= 2mA, IR= 4mA.	Trr	100	nS

NOTES:1. Enough heat sink must be considered in application.
2. Operating and Storage Temperature : -20°C to +150°C
3. Suffix " L " for Wire type.

RATING AND CHARACTERISTIC CURVES (HVM30L)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

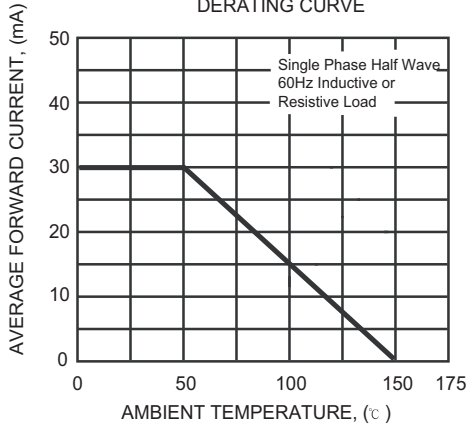


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

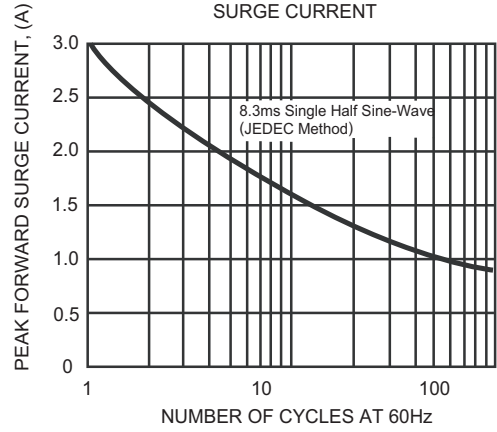


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

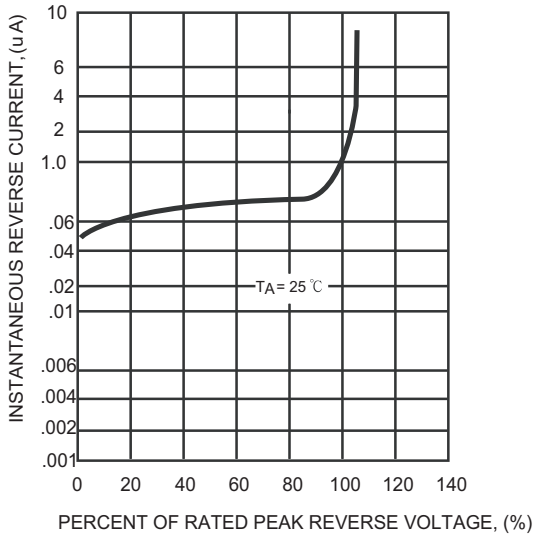
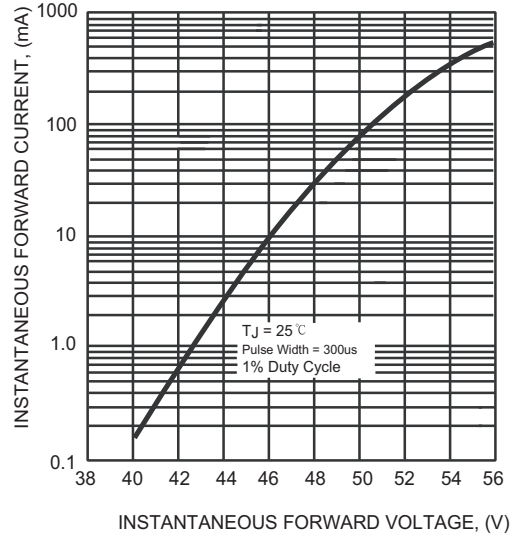


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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