HVM5 THRU HVM16

0.35&0.45AMPS.HIGH VOLTAGE ASSEMBLIED RECTIFIER

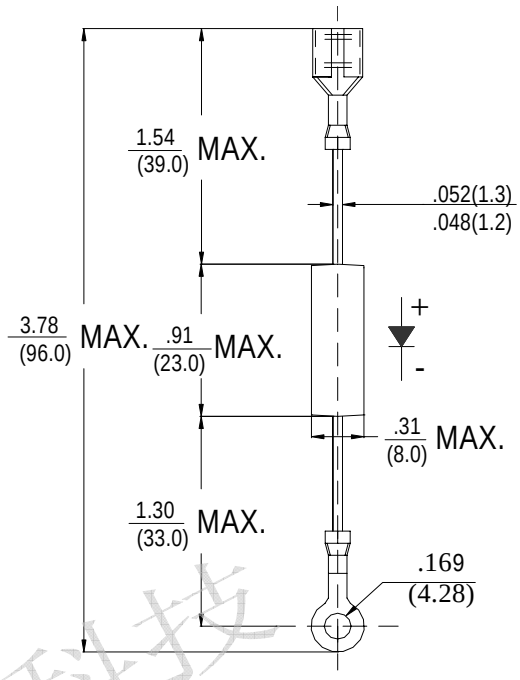
FEATURES

- Low cost
- Low lekage
- Isolated case
- Surge overload rating – 50 amperes peak
- Low forward voltage drop
- High voltage

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD- 202E, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any

HVM



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL 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%.

Type Number	SYMBOL	HVM 5	HVM 8	HVM 10	HVM 12	HVM 14	HVM 15	HVM 16	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	5000	8000	10000	12000	14000	15000	16000	V
Maximum RMS Voltage	V_{RMS}	3500	5600	7000	8400	9800	10500	11200	V
Maximum DC Blocking Voltage	V_{DC}	5000	8000	10000	12000	14000	15000	16000	V
Maximum Average Forward Rectified Current at T_A=50°C	$I_{F(AV)}$	0.35 0.45							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage at 0.35/0.45A DC	V_F	8.0	13.5			14.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=25°C	I_R	5.0							μA
Storage Temperature	T_{STG}	-55 to +150							°C
Operation JunctionTemperature	T_J	-55 to +125							°C

Note:

1.Enough heat sink must be considered in application.

2.Suffix “-Tox” (e.g. –T01,-T02,……) for Terminal type.

RATING AND CHARACTERISTIC CURVES (HVM5 THRU HVM16)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

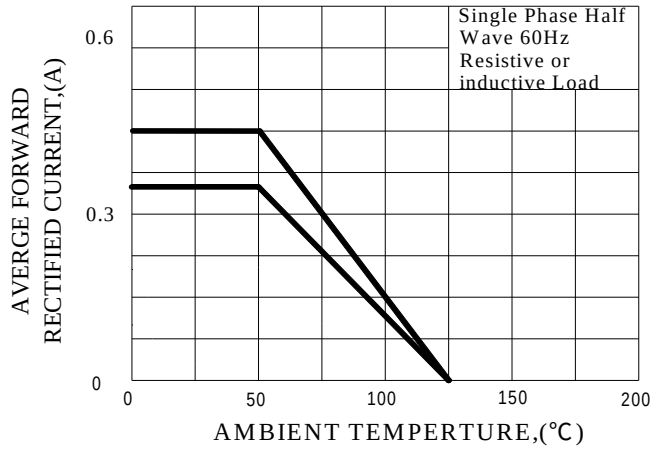


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

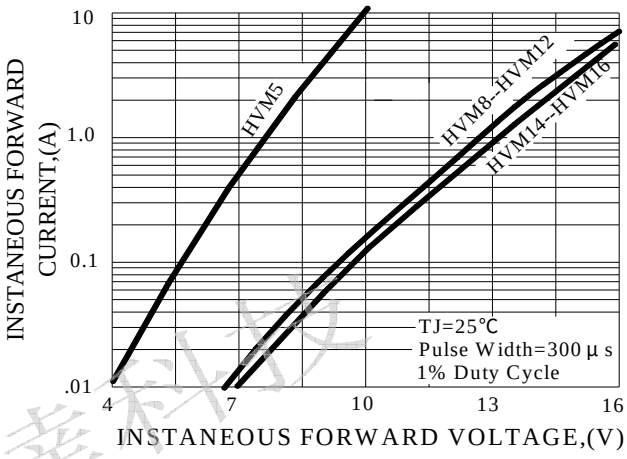


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

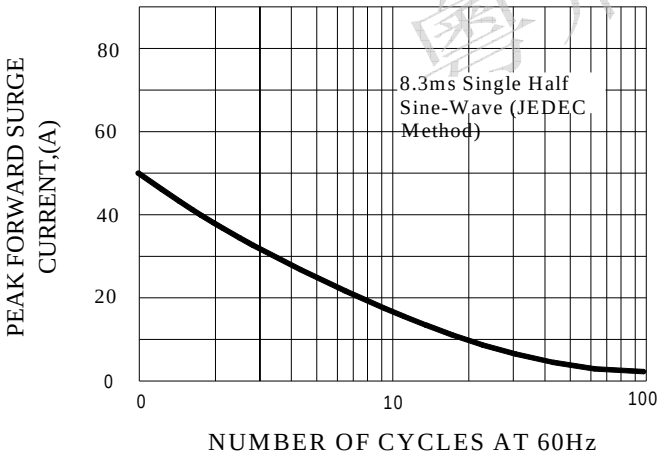


FIG.4-TYPICAL REVERSE CHARACTERISTICS