HV2

FAST SWITCHING HIGH VOLTAGE RECTIFIER DIODE

PRV : 2000 Volts
Io : 0.5 Ampere

FEATURES :

* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Pb / RoHS Free

MECHANICAL DATA :

* Case : DO-41 Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.335 gram

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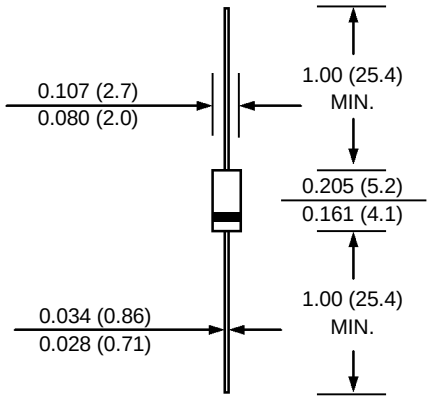

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Maximum Surge Peak Reverse Voltage	V_{RSM}	2000	V
Maximum Average Forward Current Ta = 50°C	$I_{F(AV)}$	0.5	A
Maximum Peak Forward Surge Current	I_{FSM}	27(50Hz half sine-wave)	A
		30(60Hz half sine-wave)	
Maximum Peak Forward Voltage at I_F = 0.5 Amp.	V_F	3.0	V
Maximum Reverse Current at V_{RRM} , Tj = 25°C	I_R	3.0	µA
Maximum Reverse Recovery Time (Note 1)	Trr	400	ns
Operating Junction Temperature Range	T_J	- 50 to + 150	°C
Storage Temperature Range	T_{STG}	- 50 to + 150	°C

Note :

(1) Reverse Recovery Test Conditions : I_F = 10 mA, I_R = 10 mA to I_R = 1 mA.

RATING AND CHARACTERISTIC CURVES (HV2)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

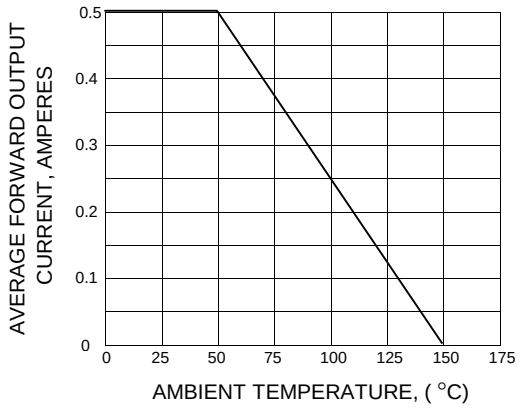

FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

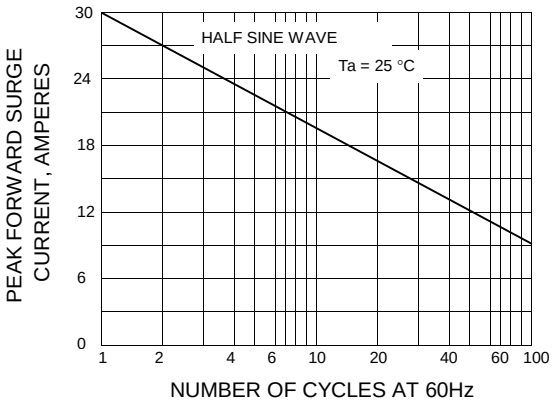

FIG.3 - TYPICAL FORWARD CHARACTERISTICS