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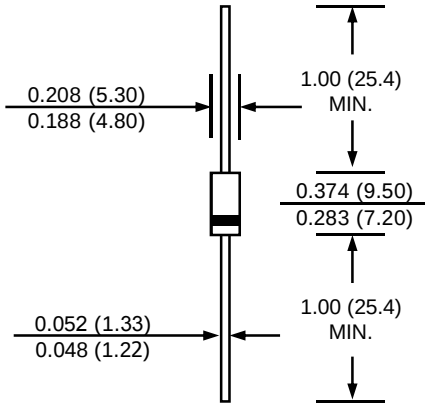
HVR320SVF ~ HVR330SVF

HIGH VOLTAGE RECTIFIER DIODES

PRV : 2000 - 3000 Volts
Io : 3.0 Amperes

DO - 201AD



Dimensions in inches and (millimeters)

FEATURES :
* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :
* Case : DO-201AD 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 : 1.16 grams

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	HVR320SVF	HVR330SVF	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	3000	V
Maximum RMS Voltage	V_{RMS}	1400	2100	V
Maximum DC Blocking Voltage	V_{DC}	2000	3000	V
Maximum Average Forward Current T_L = 50°C	$I_{F(AV)}$	3.0		A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	100		A
Forward Voltage at I_F = 3.0 A	$V_{F(min.)}$	2.5	3.0	V
	$V_{F(max.)}$	3.0	4.0	V
Maximum Reverse Current at $V_R = V_{RRM}$	I_R	10		µA
Junction Temperature Range	T_J	- 40 to + 150		°C
Storage Temperature Range	T_{STG}	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (HVR320SVF - HVR330SVF)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

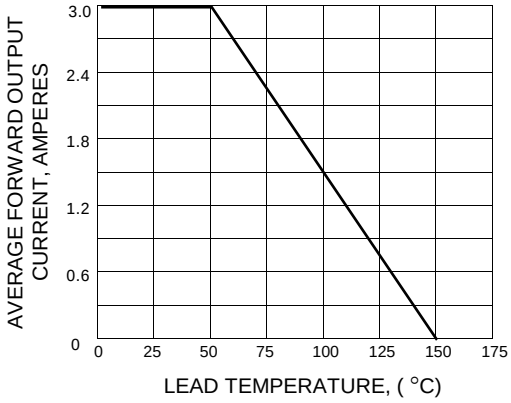


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

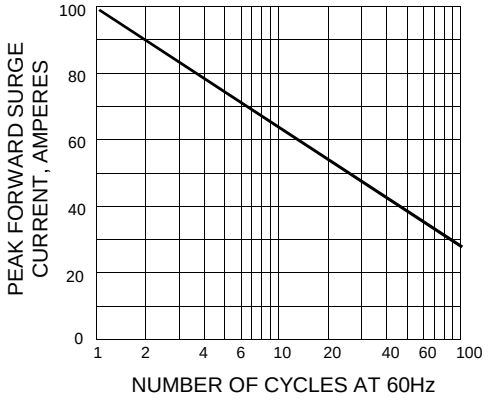


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

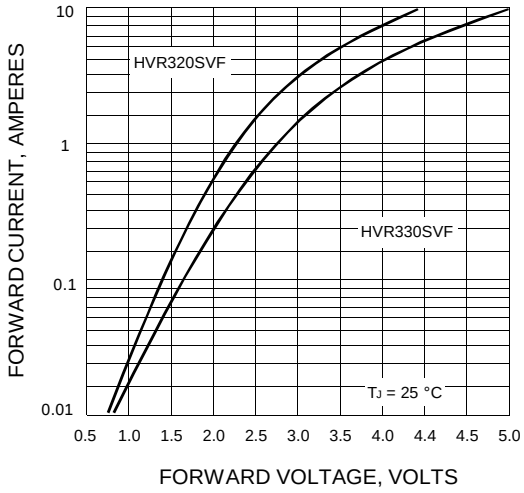


FIG.4 - TYPICAL REVERSE CHARACTERISTICS