

HVR125 - HVR180

PRV : 2500 - 8000 Volts
Io : 0.2 - 0.5 Ampere

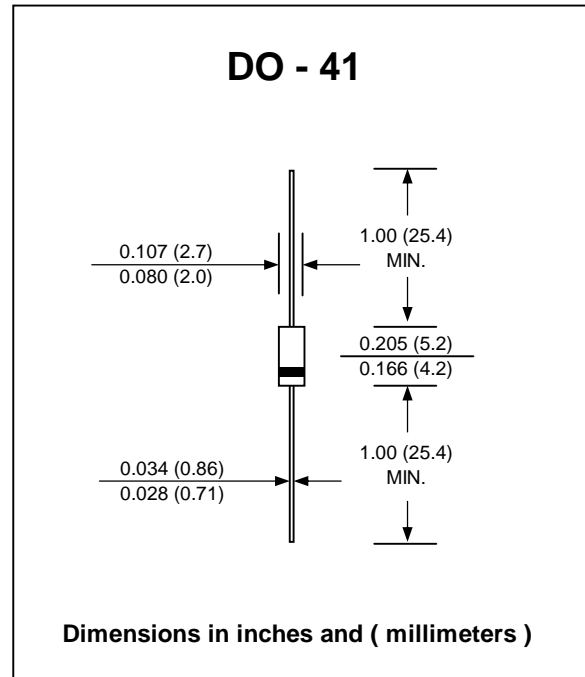
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **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 : 0.34 gram

HIGH VOLTAGE RECTIFIER DIODES



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	HVR 125	HVR 130	HVR 140	HVR 150	HVR 160	HVR 170	HVR 180	UNIT	
Maximum Repetitive Peak Reverse Voltage	VRRM	2500	3000	4000	5000	6000	7000	8000	V	
Maximum RMS Voltage	VRMS	1750	2100	2800	3500	4200	4900	5600	V	
Maximum DC Blocking Voltage	VDC	2500	3000	4000	5000	6000	7000	8000	V	
Maximum Average Forward Current Ta = 50°C	IF(AV)	0.5		0.3		0.2			A	
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30								A
Maximum Peak Forward Voltage at IF = 1.0 A	VF	3.3		5.0		8.0			V	
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	IR	5.0								µA
	IR(H)	50								µA
Junction Temperature Range	TJ	- 40 to + 150								°C
Storage Temperature Range	TSTG	- 40 to + 150								°C

RATING AND CHARACTERISTIC CURVES (HVR125 - HVR180)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

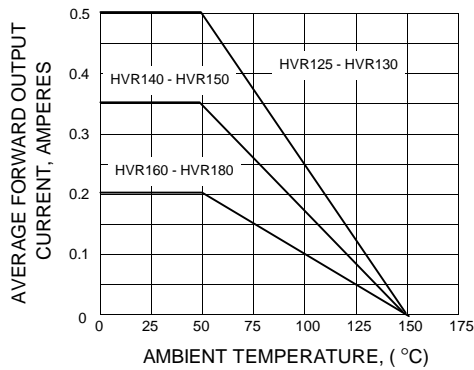


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

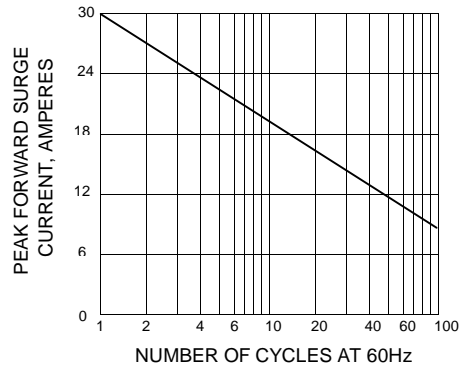


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

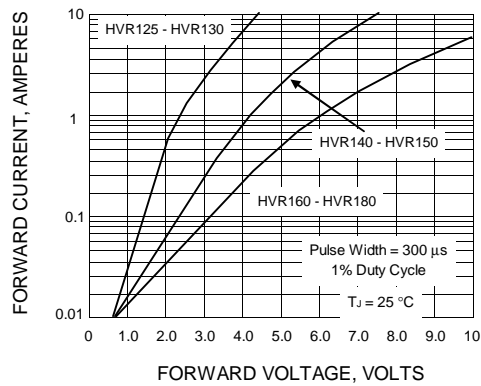
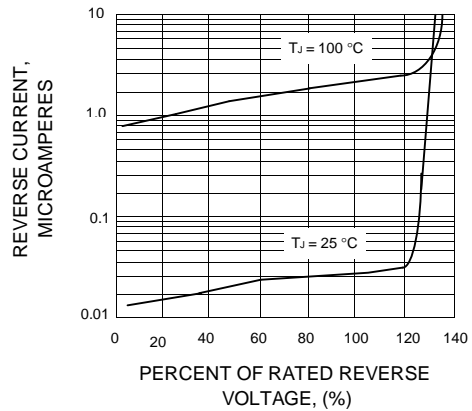


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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