

HVR125 - HVR180

PRV : 2500 - 8000 Volts
Io : 0.5 Ampere

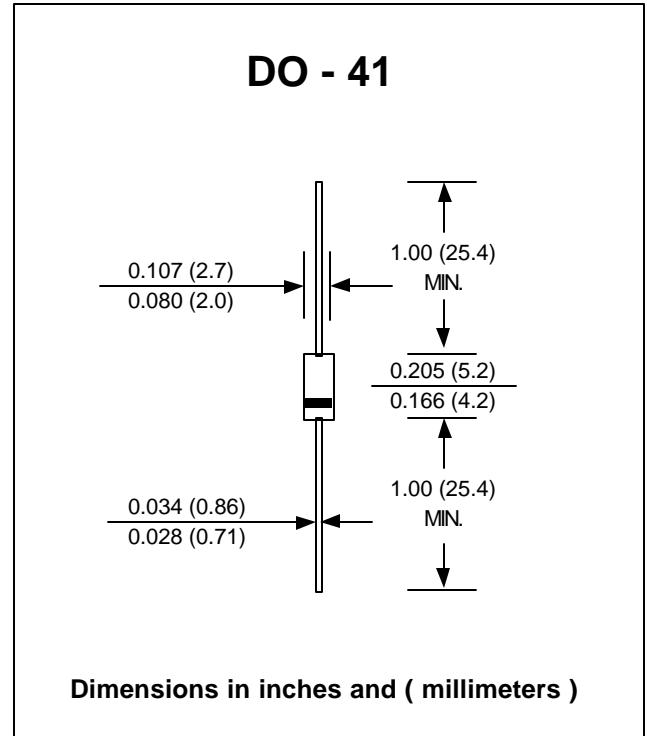
FEATURES :

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

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 : 0.339 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	V_{RRM}	2500	3000	4000	5000	6000	7000	8000	Volts
Maximum RMS Voltage	V_{RMS}	1750	2100	2800	3500	4200	4900	5600	Volts
Maximum DC Blocking Voltage	V_{DC}	2500	3000	4000	5000	6000	7000	8000	Volts
Maximum Average Forward Current $T_a = 50^\circ C$	$I_{F(AV)}$	0.5							Amp.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30							Amps.
Maximum Peak Forward Voltage at $I_F = 1.0$ Amp.	V_F	3.3	5.0		8.0				Volts
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 100^\circ C$	I_R	5.0							μA
	$I_{R(H)}$	50							μA
Junction Temperature Range	T_J	- 40 to + 150							$^\circ C$
Storage Temperature Range	T_{STG}	- 40 to + 150							$^\circ C$

RATING AND CHARACTERISTIC CURVES (HVR125 - HVR180)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

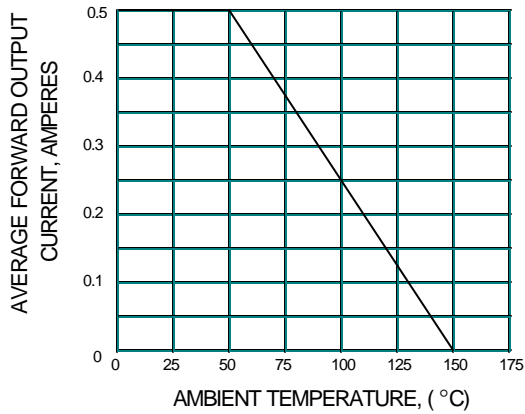


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

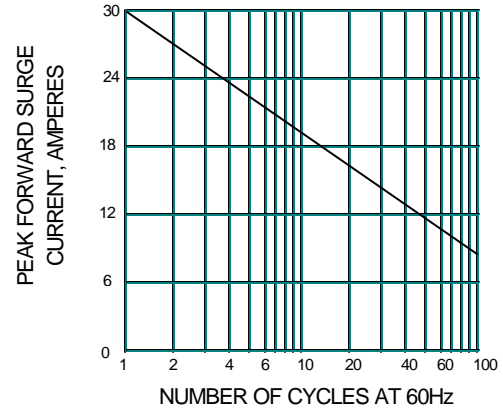


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

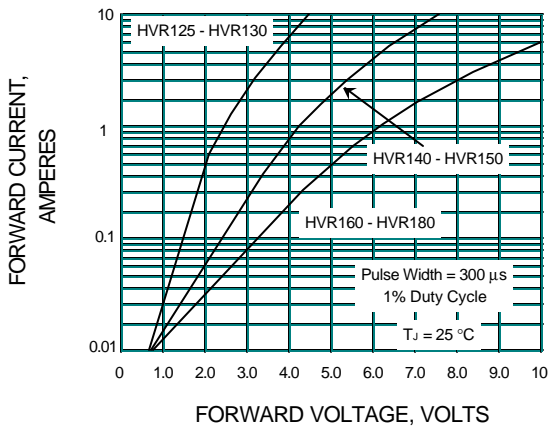


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

