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FHVR1120

GLASS PASSIVATED HIGH VOLTAGE FAST RECOVERY RECTIFIER

PRV : 12000 Volts
Io : 0.2 Ampere

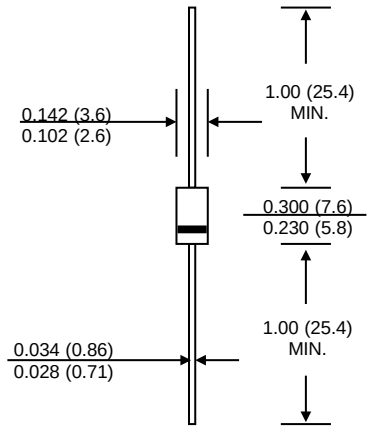
FEATURES :

* Glass passivated junction chip
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Fast switching for high efficiency
* Pb / RoHS Free

MECHANICAL DATA :

* Case : DO-15 Molded plastic
* Epoxy : UL94V-0 rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.4 gram

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	12000	V
Maximum RMS Voltage	V_{RMS}	8400	V
Maximum DC Blocking Voltage	V_{DC}	12000	V
Maximum Average Forward Current Ta = 50°C	$I_{F(AV)}$	0.2	A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	20	A
Maximum Peak Forward Voltage at I_F = 0.2 A	V_F	13	V
Maximum DC Reverse Current Ta = 25°C	I_R	5.0	µA
at Rated DC Blocking Voltage Ta = 100°C	$I_{R(H)}$	50	µA
Maximum Reverse Recovery Time (Note 1)	Trr	150	ns
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Note : (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, Irr = 0.25 A.

RATING AND CHARACTERISTIC CURVES (FHVR1120)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

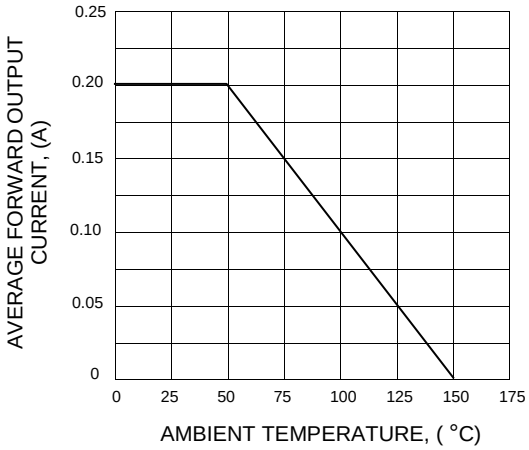


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

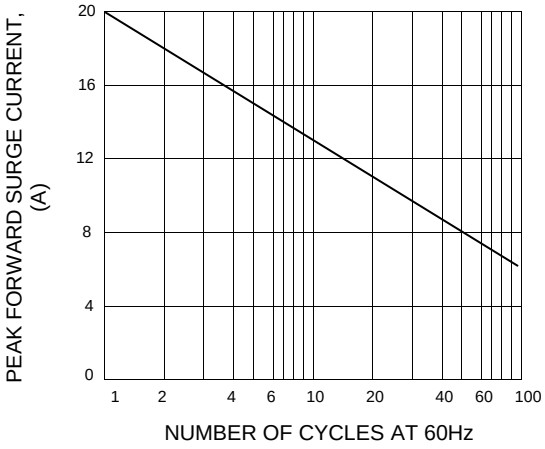


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

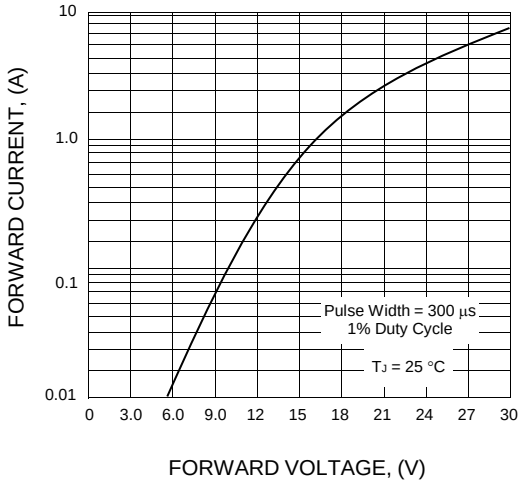


FIG.4 - TYPICAL REVERSE CHARACTERISTICS