Certificate Number: Q10561

Certificate Number: E17276

ERB84-009

SCHOTTKY-BARRIER RECTIFIER DIODE

PRV : 90 Volts
Io : 2.0 Amperes

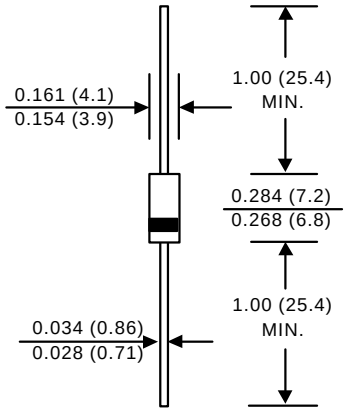
FEATURES :

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

MECHANICAL DATA :

* Case : D2 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 : 0.465 gram

D2



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 Recurrent Peak Reverse Voltage	V_{RRM}	90	V
Maximum DC Blocking Voltage	V_{DC}	72	V
Maximum Average Forward Current (Note 1)	$I_{F(AV)}$	2.0	A
Maximum Peak Forward Surge Current single half sine wave, Superimposed on rated load	I_{FSM}	60	A
Maximum Forward Voltage at I_F = 2.0 A	V_F	0.9	V
Maximum Reverse Current at V_{RRM}	I_{RRM}	2	mA
Junction Temperature Range	T_J	- 40 to + 125	°C
Storage Temperature Range	T_{STG}	- 40 to + 125	°C

Notes :

(1) Mounted Cu fins (20X20mm) on the both leads

RATING AND CHARACTERISTIC CURVES (ERB84-009)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

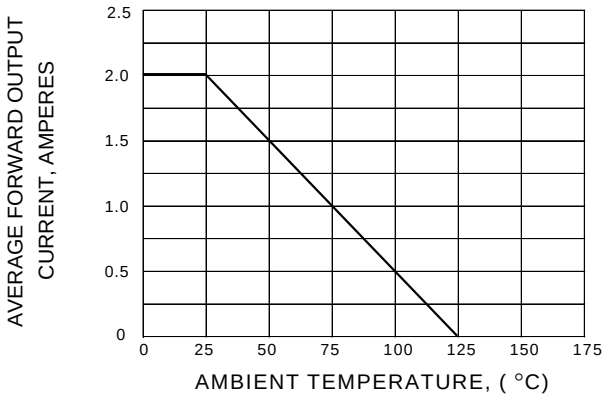


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

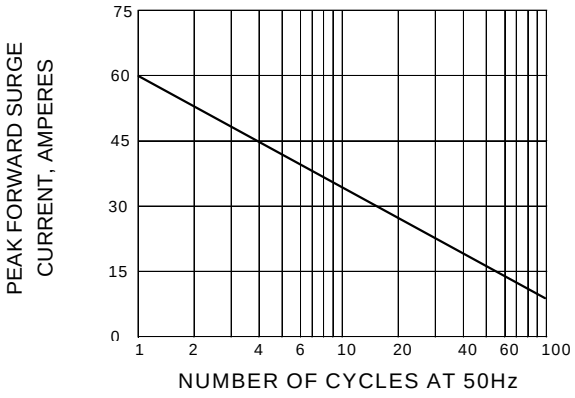


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

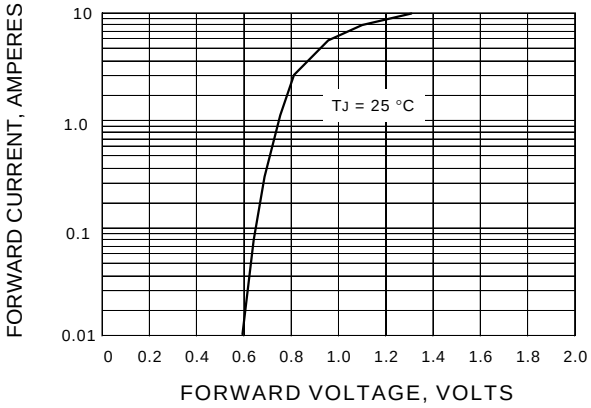


FIG.4 - TYPICAL REVERSE CHARACTERISTICS