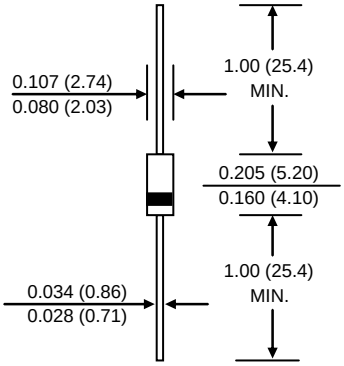
ERA84-009

SCHOTTKY BARRIER RECTIFIER DIODE

PRV : 90 Volts
Io : 1.0 Ampere

DO - 41



Dimensions in inches and (millimeters)

FEATURES :

* High current capability
* High surge current capability
* High reliability
* High efficiency
* Low power loss
* Low forward voltage drop
* Low cost
* 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 : 0.339 gram

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}	90	V
Maximum Average Forward Current (Note 1)	$I_{F(AV)}$	1.0	A
Maximum Peak Forward Surge Current	I_{FSM}	30	A
Maximum Forward Voltage at I_F = 1.0 A	V_F	0.9	V
Maximum Reverse Current at $V_R = V_{RRM}$	I_R	1.0	mA
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Note : (1) PC Booad mounting (land 10 x 10 mm)

RATING AND CHARACTERISTIC CURVES (ERA84-009)

FIG.1 - FORWARD CURRENT DERATING CURVE

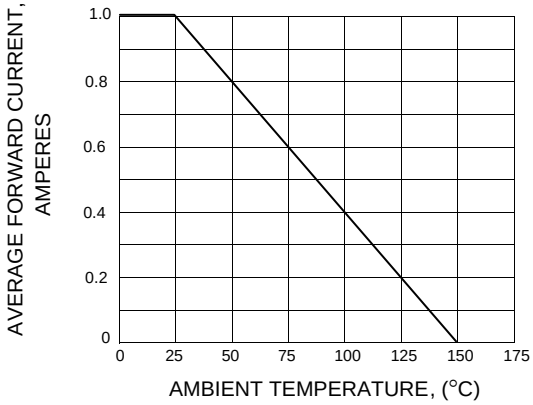


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

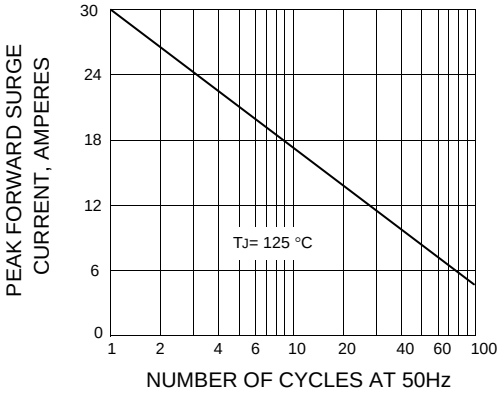


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

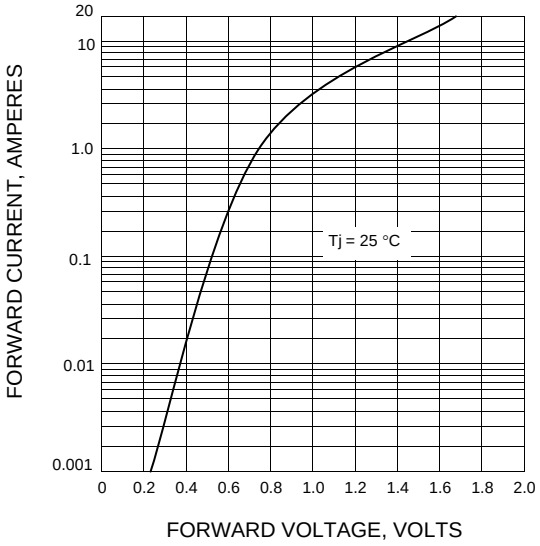


FIG.4 - TYPICAL REVERSE CHARACTERISTICS