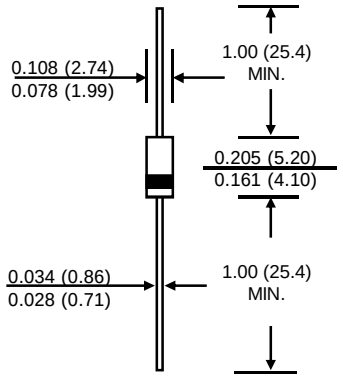
www.eicsemi.com

SR115

SCHOTTKY BARRIER RECTIFIER DIODE

PRV : 150 Volts
I_O : 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
* Pb / RoHS Free

MECHANICAL DATA :

* Case : DO-41 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 : 0.312 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}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Current T_L = 100 °C	$I_{F(AV)}$	1.0	A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30	A
Maximum Instantaneous Forward Voltage at I_F = 1.0 A	V_F	0.95	V
Maximum Reverse Current at Ta = 25 °C	I_R	0.1	mA
Rated DC Blocking Voltage Ta = 125 °C	$I_{R(H)}$	2.0	mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	90	°C/W
Operation Junction Temperature Range	T_J	- 65 to + 150	°C
Storage Temperature Range	T_{STG}	- 65 to + 150	°C

Note : (1) Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

RATING AND CHARACTERISTIC CURVES (SR115)

FIG.1 - FORWARD CURRENT DERATING CURVE

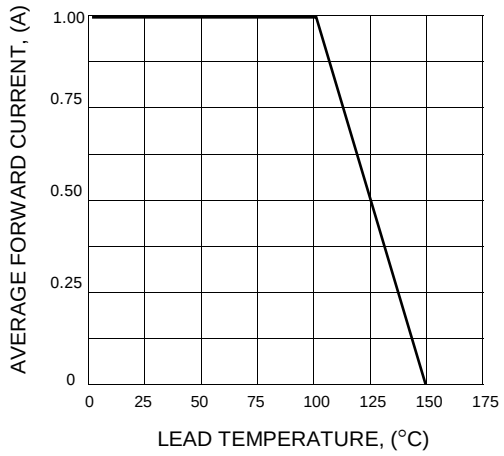


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

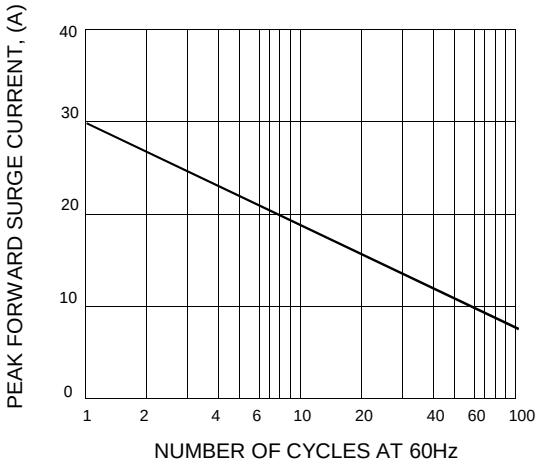


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

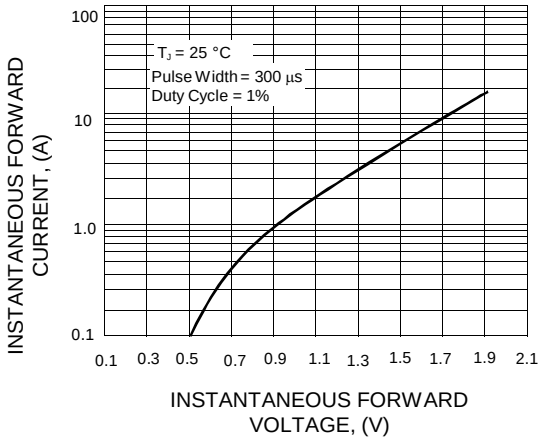


FIG.4 - TYPICAL REVERSE CHARACTERISTICS