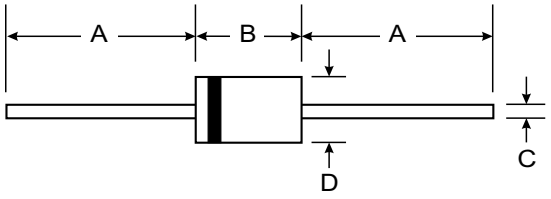
ERA83-004

1.0A Axial Leaded Schottky Barrier Rectifier Diodes

Features

- High current capability
- High efficiency
- High surge capability
- High reliability
- 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

DO-41		
Dim	**Min**	**Max**
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

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}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Current T_L = 115°C	$I_{F(AV)}$	1.0	A
Maximum Non-Repetitive Peak Forward Surge Current	I_{FSM}	50	A
Maximum Forward Voltage at I_F = 1.0 A	V_F	0.55	V
Maximum Reverse Current at V_{RRM}	I_R	2.0	mA
Junction Temperature Range	T_J	- 40 to + 125	°C
Storage Temperature Range	T_{STG}	- 40 to + 125	°C

RATING AND CHARACTERISTIC CURVES (ERA83-004)

FIG.1 - FORWARD CURRENT DERATING CURVE

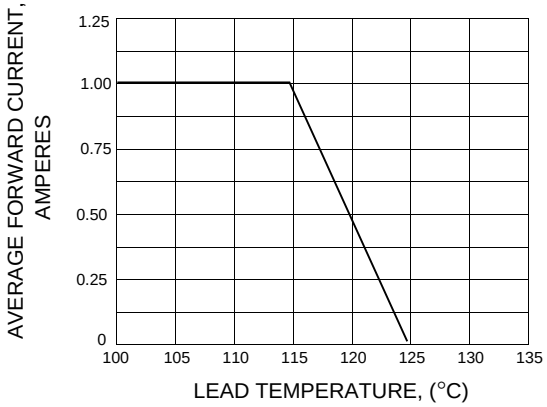


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

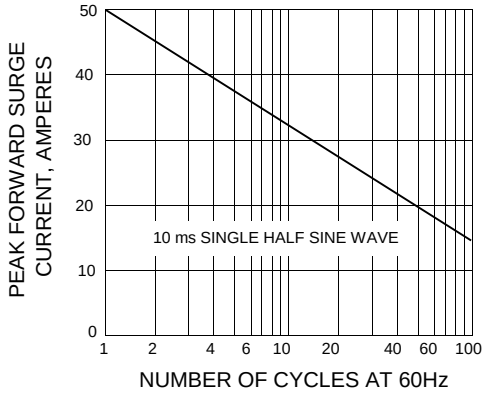


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

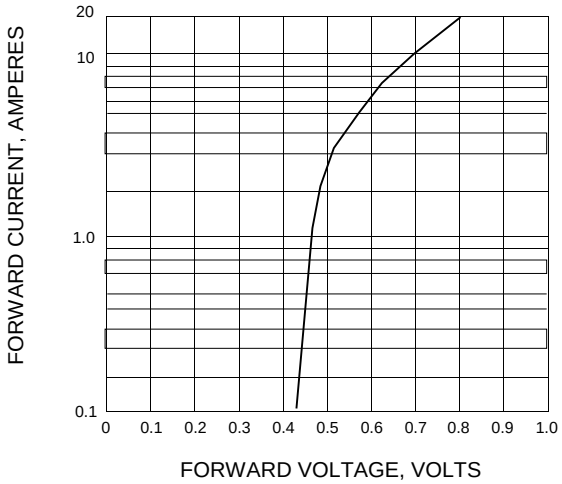


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

