

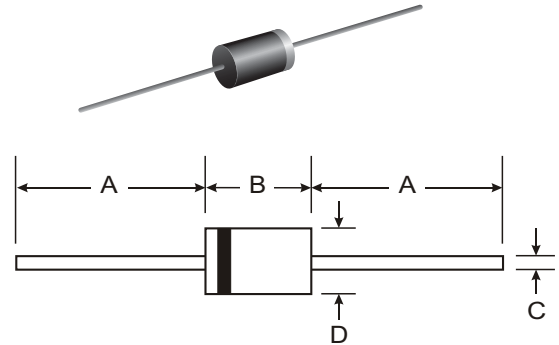
**VOLTAGE RANGE: 40 V**  
**CURRENT: 1.0 A**

### Features

- High current capability
- High surge current capability
- High reliability
- High efficiency
- Low power loss
- Low forward voltage drop
- Low cost

### Mechanical Data

- Case: DO-41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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 $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ERA81-004	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Current $T_L = 115^\circ\text{C}$	$I_{F(AV)}$	1.0	A
Maximum Non-Repetitive Peak Forward Surge Current (Sin wave, 10ms)	$I_{FSM}$	50	A
Maximum Forward Voltage at $I_F = 1.0\text{ A}$	$V_F$	0.55	V
Maximum Reverse Current at $V_R = V_{RRM}$	$I_R$	2.0	mA
Junction Temperature Range	$T_J$	- 40 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 40 to + 125	$^\circ\text{C}$



## RATING AND CHARACTERISTIC CURVES ( ERA81-004 )

FIG.1 - FORWARD CURRENT DERATING CURVE

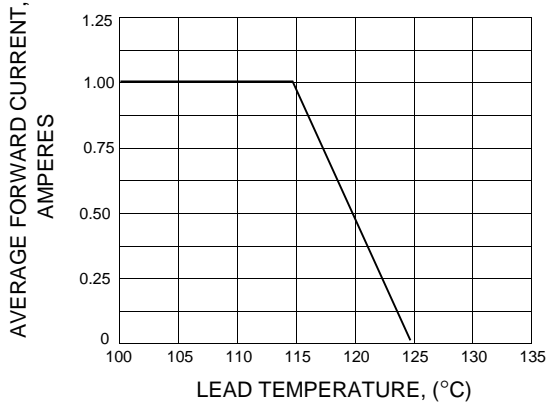


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

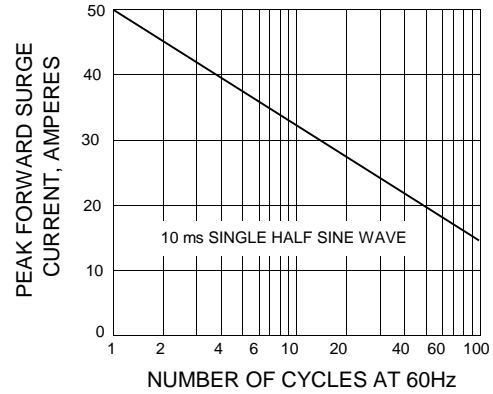


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

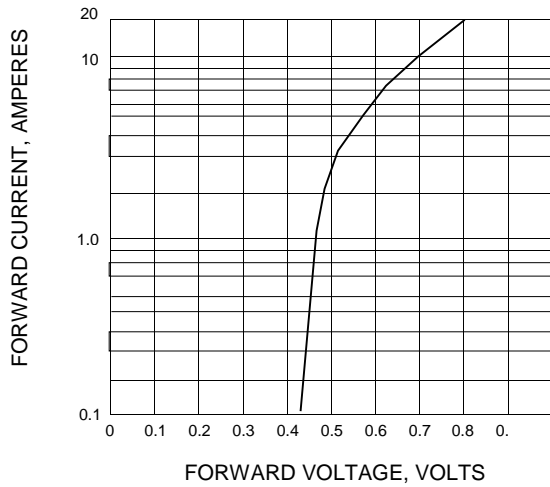


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

