

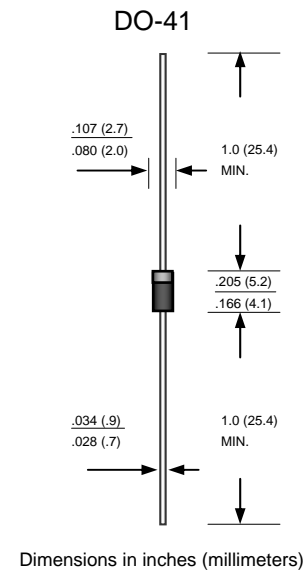
## SCHOTTKY BARRIER RECTIFIERS

### Features

- High current capability
- low forward voltage drop
- High surge capability
- High reliability

### Mechanical Data

- Case: Molded plastic, DO-41
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202E, Method 208C guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any



### Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half-wave, 50 Hz, resistive or inductive load, for capacitive load, derate current by 20%.

Parameter	Symbols	ERB83-004	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_a = 75^\circ\text{C}$	$I_{(AV)}$	1.7	A
Peak Forward Surge Current, 10 ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	$I_{FSM}$	100	A
Maximum Instantaneous Forward Voltage at 2 A	$V_F$	0.55	V
Maximum Reverse Current at Rated DC Reverse Voltage	$I_R$	5	mA
Typical Junction Capacitance <sup>1)</sup>	$C_J$	110	pF
Operating Junction Temperature Range	$T_j$	- 40 to + 125	°C
Storage Junction Temperature Range	$T_{stg}$	- 40 to + 125	°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C.

