

ERA83-004 - ERA83-006 SCHOTTKY BARRIER RECTIFIER DIODES

VOLTAGE RANGE: 40-60V CURRENT: 1.0 A

Features

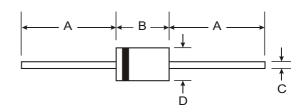
- Schottky Barrier Chip
- Guard Ring Die Construction for **Transient Protection**
- **High Current Capability**
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity **Protection Applications**

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		
Α	25.40	_		
В	4.06	5.21		
С	0.71	0.864		
D	2.00	2.72		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	ERA83-004	ERA83-006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	60	V
RMS Reverse Voltage	VR(RMS)	28	42	V
Average Rectified Output Current @T _L = 100°C (Note 1)	lo	1.	0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40	0	А
Forward Voltage @I _F = 1.0A	VFM	0.50	0.70	V
	IRM	0.5 10		mA
Typical Junction Capacitance (Note 2)	Cj	110	80	pF
Typical Thermal Resistance (Note 1)	RθJL RθJA	15 50		°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65	to +150	°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



