



R1200 THRU R2000

HIGH VOLTAGE SILICON RECTIFIER

Reverse Voltage - 1200 to 2000 Volts Forward Current - 0.5 Ampere

FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

MECHANICAL DATA

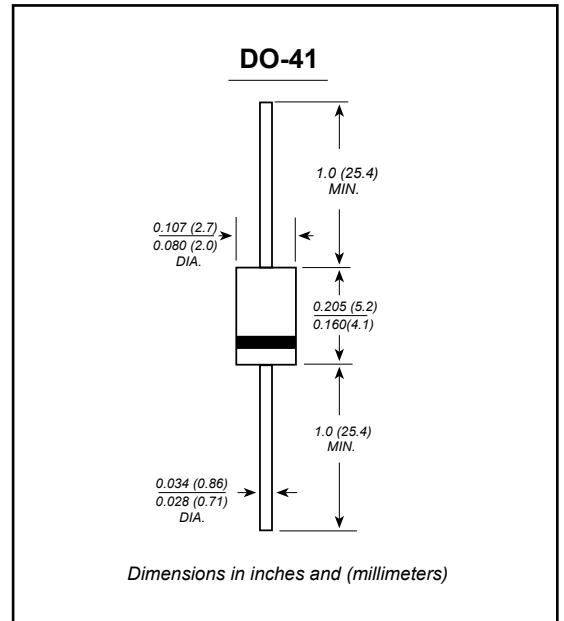
Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams



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	R1200	R1500	R1800	R2000	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	1200	1500	1800	2000	V
RMS Reverse Voltage	V _{R(RMS)}	840	1050	1260	1400	V
Average Rectified Output Current (Note 1) @ T _A = 50°C	I _O	500				mA
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30				A
Forward Voltage @ I _F = 500mA	V _{FM}	2.0			3.0	V
Peak Reverse Leakage Current at Rated DC Blocking Voltage	I _{RM}	5.0				μA
Typical Junction Capacitance (Note 2)	C _j	30				pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	70			117	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150				°C

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



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RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

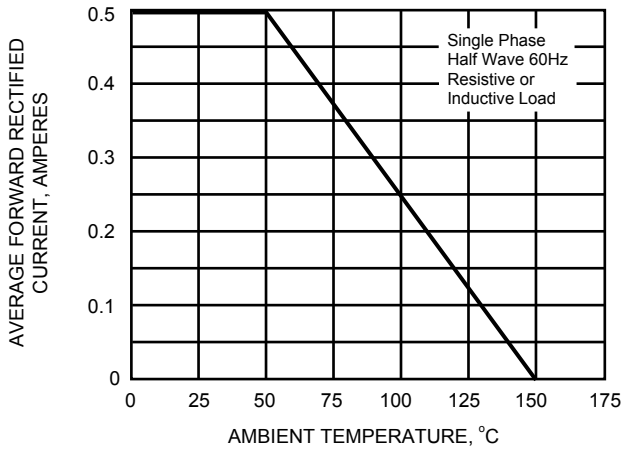


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

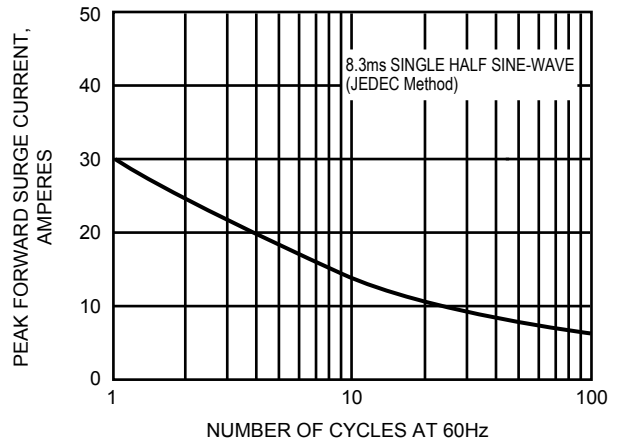


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

