

ERC01-04F

SILICON RECTIFIER DIODE

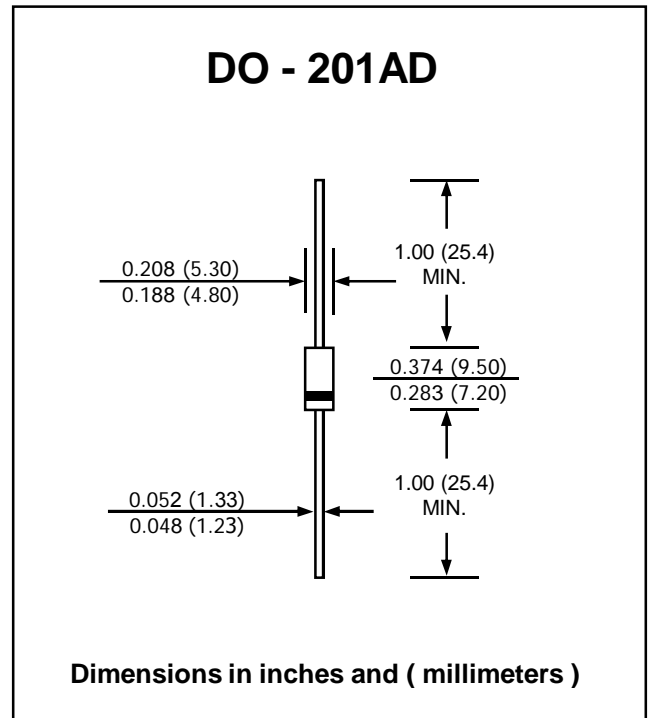
PRV : 400 Volts
Io : 1.8 Ampere

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-201AD 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 : 1.21 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	V
Maximum DC Blocking Voltage	V _{DC}	320	V
Maximum Average Forward Current Ta = 40 °C	I _{F(AV)}	1.8	A
Maximum Non-repetitive Peak Forward Surge Current (sine wave 10 ms at no load)	I _{FSM}	130	A
Maximum Forward Voltage at I _F = 4.0 A	V _F	1.1	V
Maximum Reverse Current at V _{RRM}	I _{RRM}	10	μA
Junction Temperature Range	T _J	- 40 to + 140	°C
Storage Temperature Range	T _{STG}	- 40 to + 140	°C

RATING AND CHARACTERISTIC CURVES (ERC01 - 04F)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

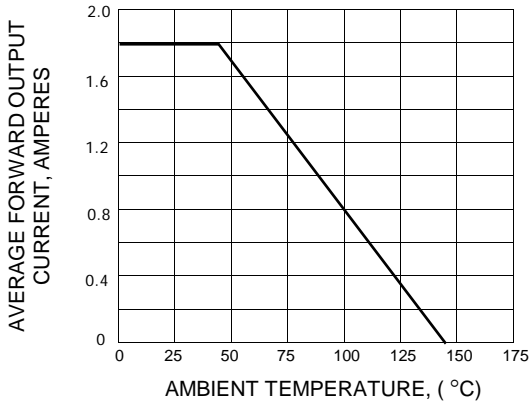


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

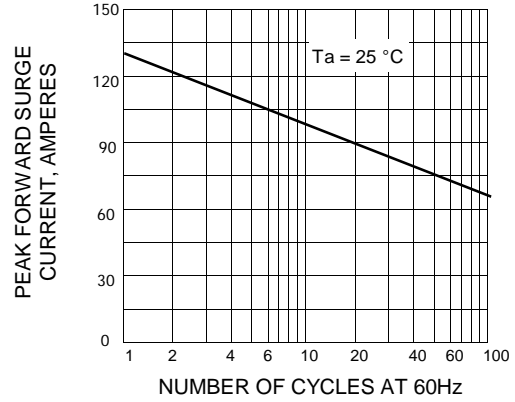


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

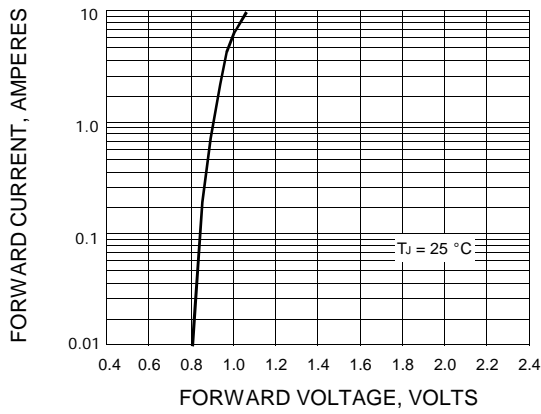


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

