

ERC04-02 ~ ERC04-10

SILICON RECTIFIER DIODES

PRV : 200 - 1000 Volts

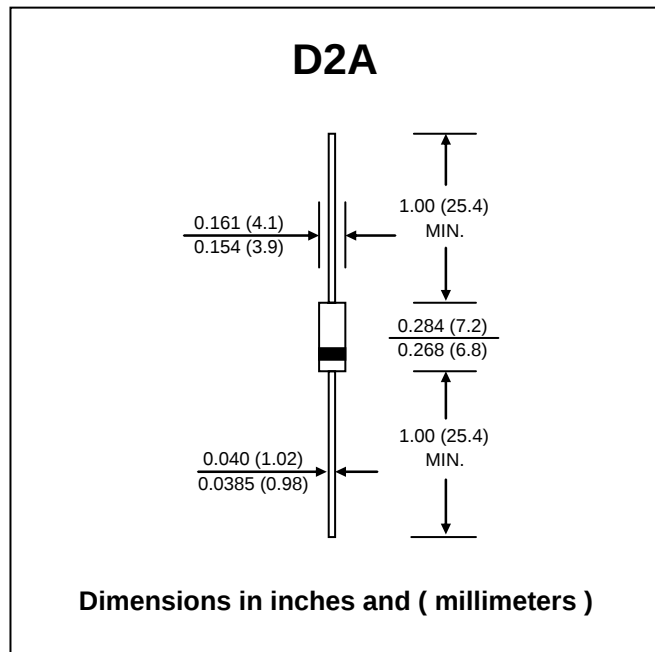
Io : 1.2 Amperes

FEATURES :

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

MECHANICAL DATA :

- * Case : D2A 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 : 0.645 gram



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	ERC04-02	ERC04-04	ERC04-06	ERC04-10	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	1000	V
Maximum DC Blocking Voltage	$V_{R(DC)}$	160	320	480	800	V
Maximum Average Forward Current , $T_a = 60\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	1.2				A
Maximum Non-repetitive Peak Forward Surge Current (sine wave 10ms at no load)	I_{FSM}	100				A
Maximum Forward Voltage at $I_F = 4.0\text{ A}$	V_F	1.1				V
Maximum Reverse Current at V_{RRM}	I_{RRM}	10				μA
Junction Temperature Range	T_J	- 40 to + 140				$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 140				$^{\circ}\text{C}$

RATING AND CHARACTERISTIC CURVES (ERC04-02 to ERC04-10)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

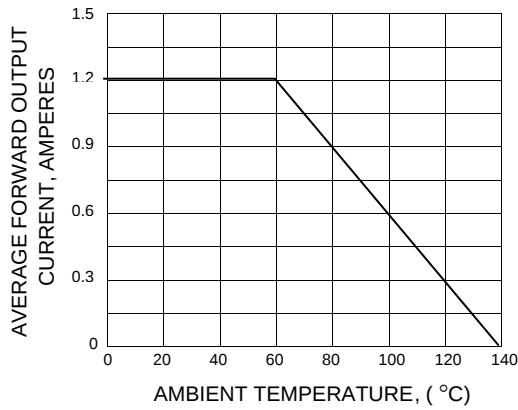


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

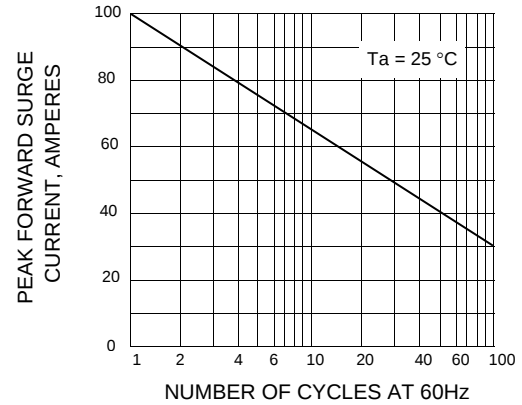


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

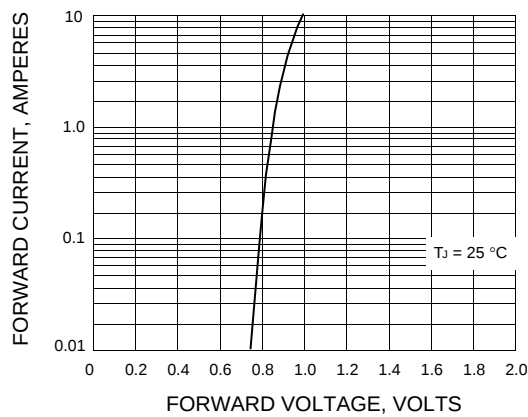


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

