

10EDA20

PRV : 200 Volts

Io : 1.0 Ampere

FEATURES :

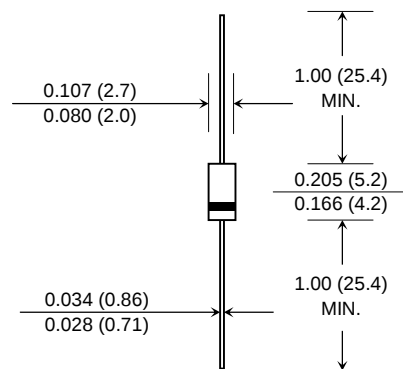
- * High current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-41 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 : 0.335 gram

SILICON RECTIFIER DIODE

DO - 41



Dimensions in inches and (millimeters)

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}	200	V
Maximum Average Forward Current $T_a = 39\text{ }^{\circ}\text{C}$ 50 Hz Half Sine wave (Note 1)	$I_{F(AV)}$	1.0	A
Maximum Peak One Cycle Surge Forward Current, 50 Hz Sine wave (Non-Repetitive)	I_{FSM}	45	A
Maximum Forward Voltage at $I_F = 1.0\text{ A}$.	V_F	1.0	V
Maximum Reverse Current	I_{RM}	10	μA
Maximum Thermal Resistance (Note 1)	$R_{\theta JA}$	110	$^{\circ}\text{C/W}$
Junction Temperature Range	T_J	- 40 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150	$^{\circ}\text{C}$

Note :

(1) P.C. Board mounted (L = 3 mm, Print Land = 5 × 5 mm, Both Sides)

RATING AND CHARACTERISTIC CURVES (10EDA20)

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

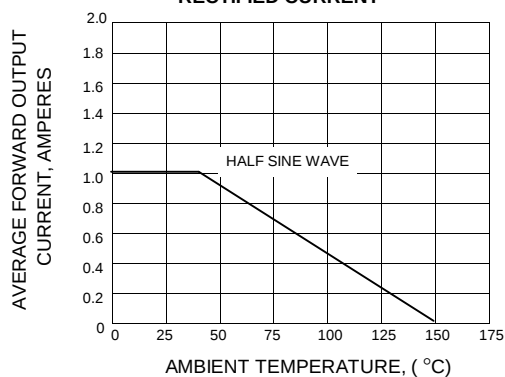


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

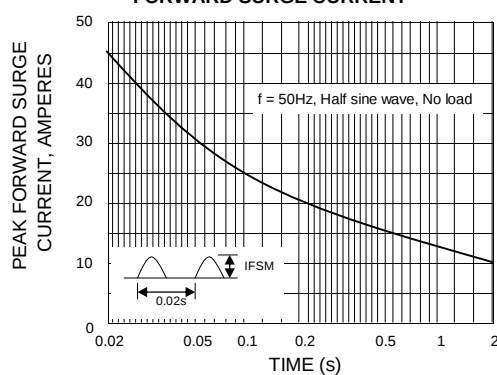


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

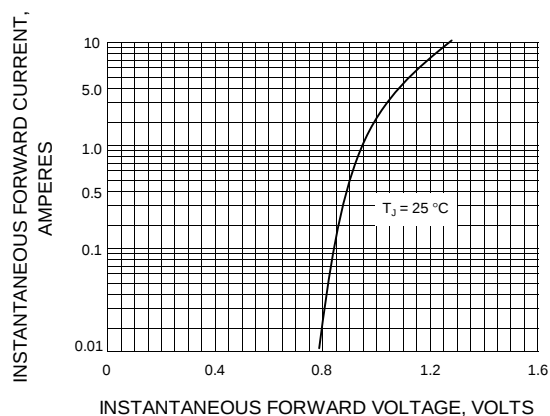


FIG.5 - AVERAGE FORWARD POWER DISSIPATION

