

21DQ10

PRV : 100 Volts

Io : 1.7 Ampere

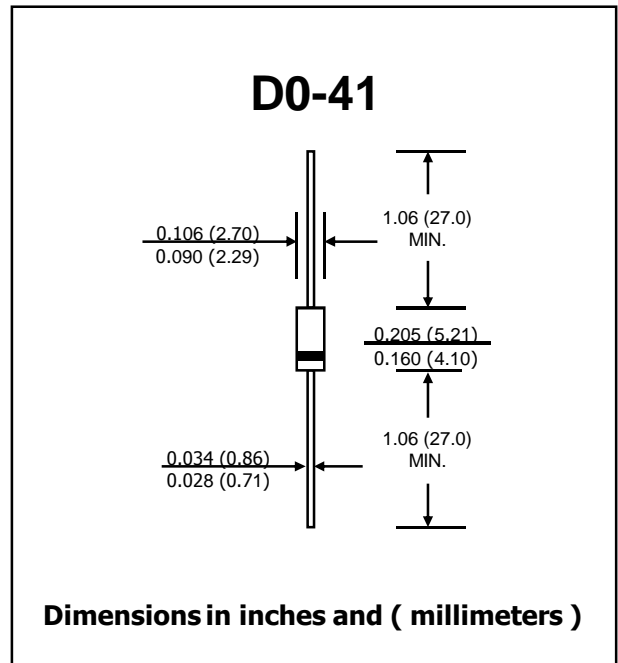
FEATURES :

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

MECHANICAL DATA :

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.312 gram

SCHOTTKY BARRIER DIODE



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}	100	V
Maximum Average Forward Current , $T_a = 43\text{ }^\circ\text{C}$ (50 Hz Half Sine wave Resistive Load)	$I_{F(AV)}$	1.7	A
Maximum Peak One Cycle Surge Forward Current, 50 Hz Sine wave (Non-Repetitive)	I_{FSM}	70	A
Maximum Forward Voltage at $I_F = 2.0\text{ A}$.	V_F	0.85	V
Maximum Reverse Current , $V_R = V_{RRM}$	I_{RM}	1.0	mA
Maximum Thermal Resistance (Note 1)	$R_{\theta JA}$	70	$^\circ\text{C/W}$
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 x 5 mm, Both Sides)

RATING AND CHARACTERISTIC CURVES (21DQ10)

FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

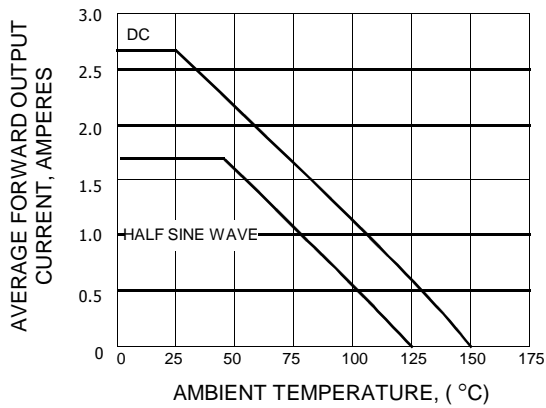


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

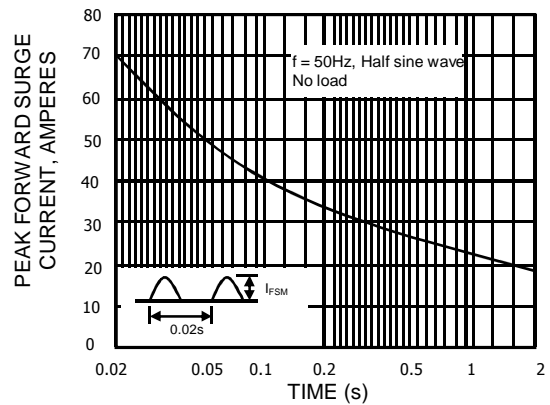


FIG. 3 - FORWARD CURRENT VS. FORWARD VOLTAGE

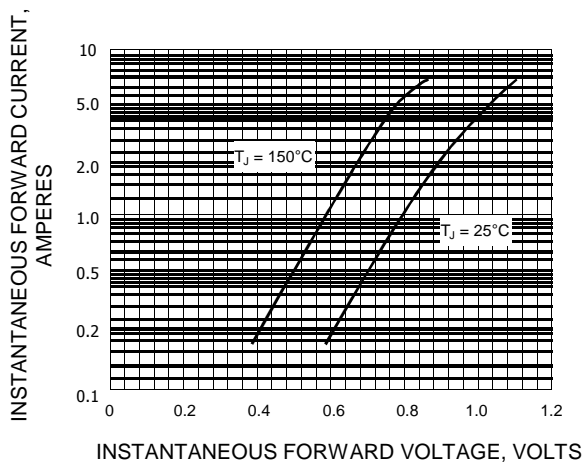


FIG. 4 - JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

