

21QD10

PRV : 100 Volts
Io : 1.7 Ampere

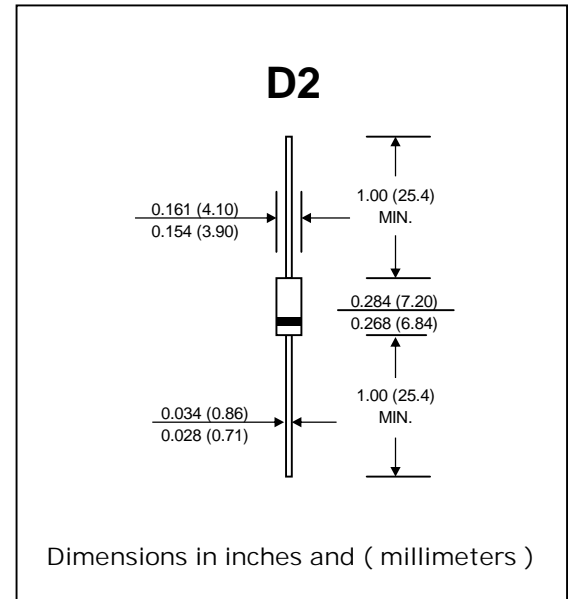
FEATURES :

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

MECHANICAL DATA :

- * Case : D2 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 : 0.465 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 , Ta = 43 °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 A.	V _F	0.85	V
Maximum Reverse Current , V _R = V _{RRM}	I _{RM}	1.0	mA
Maximum Thermal Resistance (Note 1)	R _{θJA}	70	°C/W
Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Note :

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

RATING AND CHARACTERISTIC CURVES (21DQ10)

FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

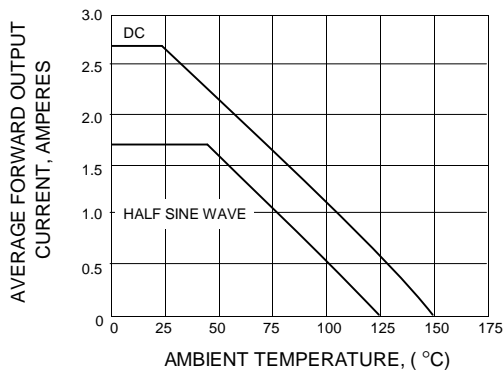


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

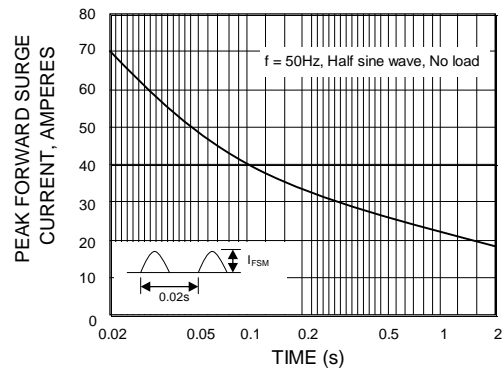


FIG. 3 - FORWARD CURRENT VS. FORWARD VOLTAGE

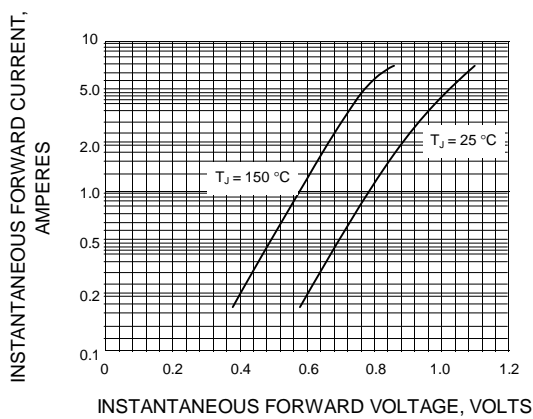


FIG. 4 - JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

