

# 21QD10

**PRV : 100 Volts**

**Io : 1.7 Ampere**

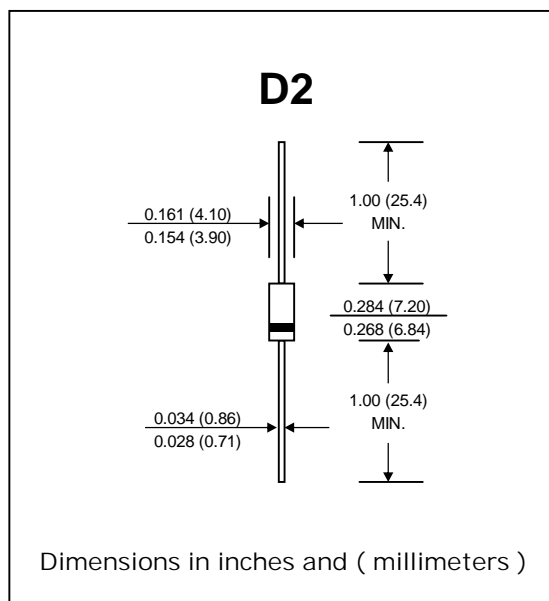
### FEATURES :

- \* 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%.

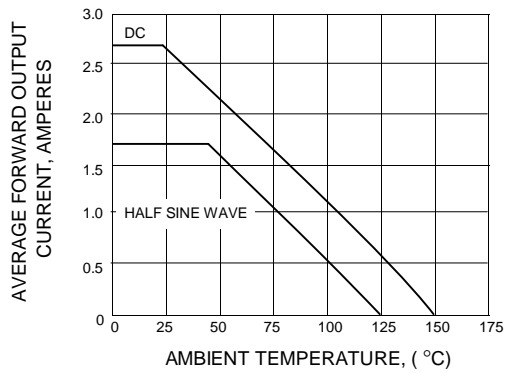
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum Average Forward Current , Ta = 43 °C (50 Hz Half Sine wave Resistive Load )	I <sub>F(AV)</sub>	1.7	A
Maximum Peak One Cycle Surge Forward Current, 50 Hz Sine wave (Non-Repetitive)	I <sub>FSM</sub>	70	A
Maximum Forward Voltage at I <sub>F</sub> = 2.0 A.	V <sub>F</sub>	0.85	V
Maximum Reverse Current , V <sub>R</sub> = V <sub>RRM</sub>	I <sub>RM</sub>	1.0	mA
Maximum Thermal Resistance (Note 1)	R <sub>θJA</sub>	70	°C/W
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150	°C

**Note :**

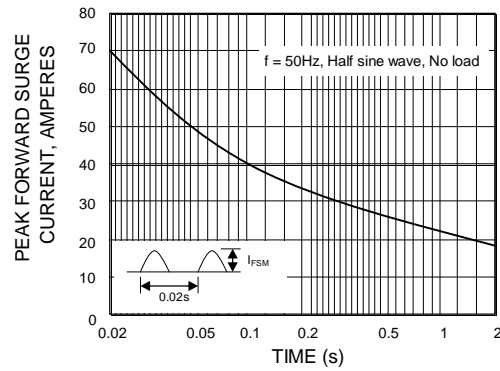
(1) P.C. Board mounted (L = 3 mm, Print Land = 5 × 5 mm, Both Sides)

## RATING AND CHARACTERISTIC CURVES ( 21DQ10 )

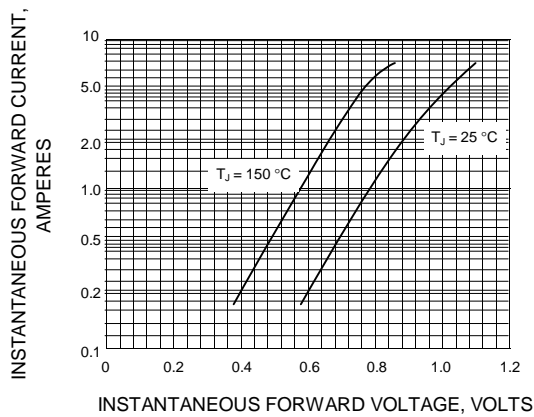
**FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE**



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



**FIG. 3 - FORWARD CURRENT VS. FORWARD VOLTAGE**



**FIG. 4 - JUNCTION CAPACITANCE VS. REVERSE VOLTAGE**

