

21DQ09

PRV : 90 Volts
Io : 1.7 Ampere

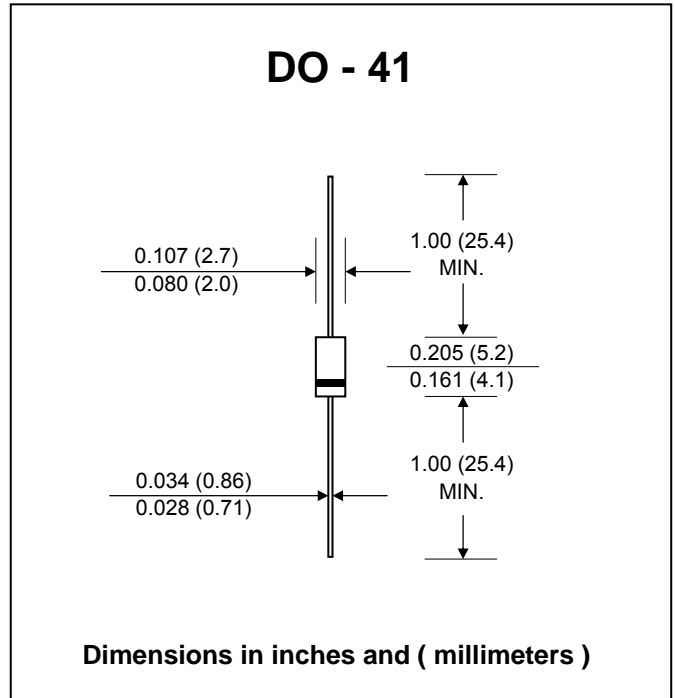
FEATURES :

- * High surge capability
- * High efficiency
- * Low power loss
- * 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

SCHOTTKY BARRIER DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	90	V
Maximum Average Forward Current , Half Sine wave Resistive Load	$I_{F(AV)}$	1.3 ⁽¹⁾	A
$T_a = 32\text{ }^\circ\text{C}$		1.7 ⁽²⁾	
$T_a = 47\text{ }^\circ\text{C}$	$I_{F(RMS)}$	2.7	A
RMS Forward Current			
Maximum Surge Forward Current, Half sine wave, 1 cycle, Non-Repetitive	I_{FSM}	70	A
Maximum Forward Voltage at $I_F = 2.0\text{ A}$, $T_J = 25\text{ }^\circ\text{C}$	V_F	0.85	V
Maximum Reverse Current , $V_R = V_{RRM}$, $T_J = 25\text{ }^\circ\text{C}$	I_{RM}	1.0	mA
Maximum Thermal Resistance	$R_{\theta JA}$	105 ⁽¹⁾	$^\circ\text{C/W}$
		70 ⁽²⁾	
Operating Junction Temperature Range	T_J	- 40 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150	$^\circ\text{C}$

Notes :

- (1) Without Fin or P.C. Board.
- (2) P.C. Board mounted (Print Land = 5 × 5 mm, Both Sides).

RATING AND CHARACTERISTIC CURVES (21DQ09)

FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

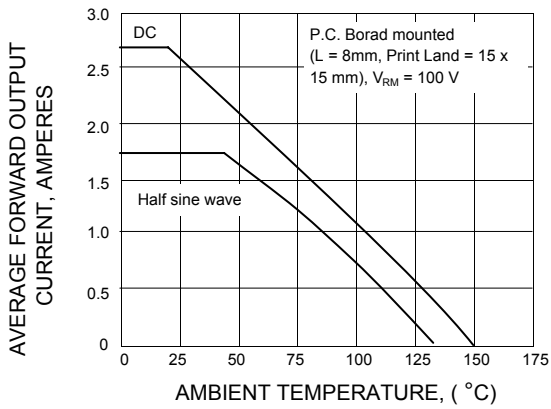


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

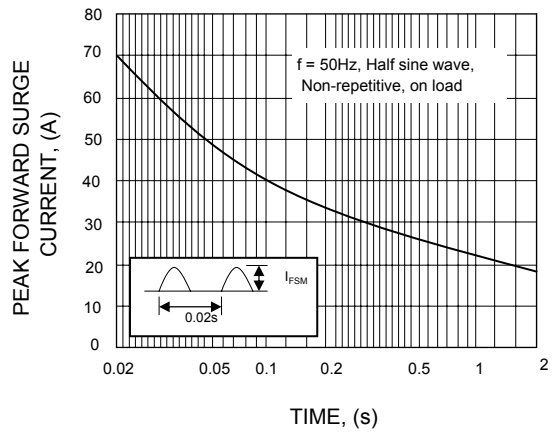


FIG. 3 - FORWARD CURRENT VS. FORWARD VOLTAGE

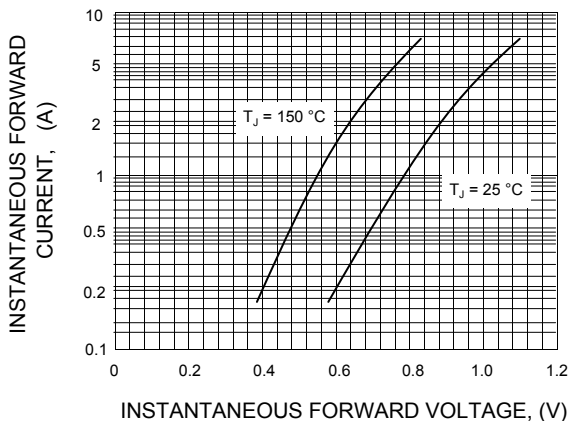


FIG. 4 - JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

