

D2L20U

SUPER FAST RECTIFIER DIODE

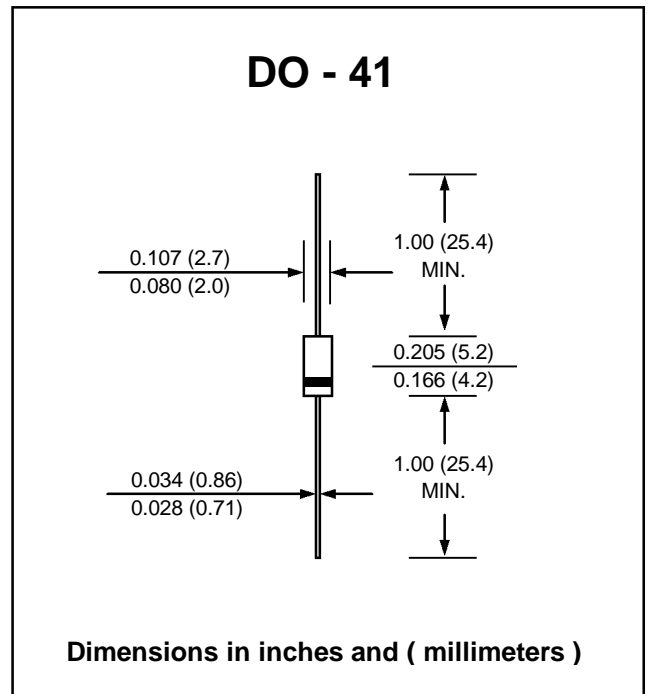
PRV : 200 Volts
Io : 1.5 Ampere

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TL = 25°C)

RATING	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	VRM	200	V
Maximum Average Forward Current (50 Hz sine wave, R-load, TL = 125°C) (50 Hz sine wave, R-load, Ta = 25°C)	IF(AV)	1.5 1.3	A
Maximum Non-repetitive Surge Forward Current (50 Hz sine wave, 1 cycle peak value, Tj = 25°C)	IFSM	40	A
Maximum Peak Forward Voltage at IF = 1.5 A	VF	0.98	V
Maximum Reverse Current at VR = VRM	IR	10	µA
Maximum Reverse Recovery Time (Note 1)	Trr	35	ns
Junction Temperature Range	TJ	150	°C
Storage Temperature Range	TSTG	- 40 to + 150	°C

Note :

(1) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A.

RATING AND CHARACTERISTIC CURVES (D2L20U)

FIG.1 - FORWARD CURRENT DERATING CURRENT

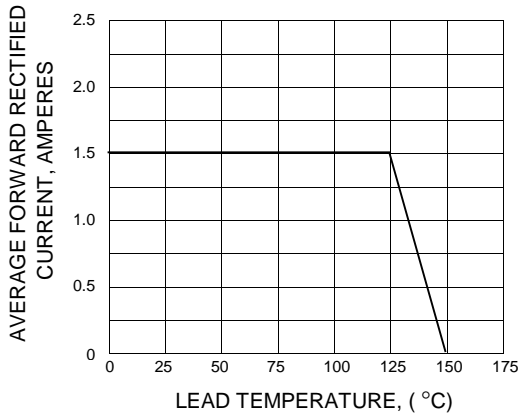


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

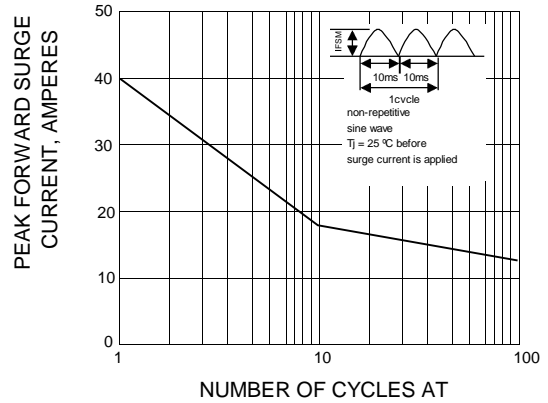


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

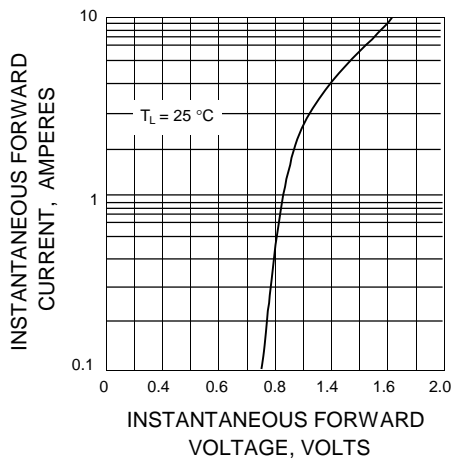


FIG. 4 - FORWARD POWER DISSIPATION

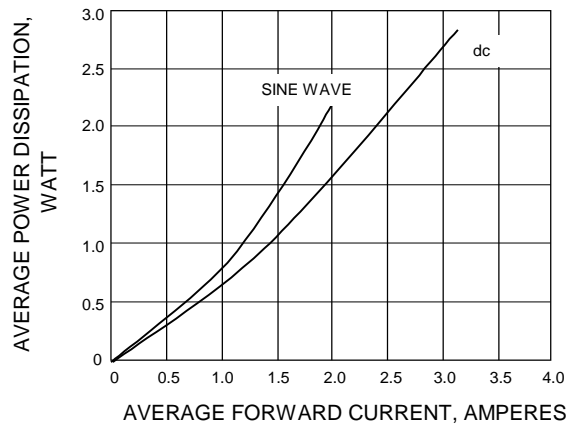


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

