



Micro Commercial Components



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20736 Marilla Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

DL4446

500mW 75Volt
High-speed Diode

Features

- Small hermetically sealed glass SMD package
High switching speed: max. 4ns
Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

- Storage Temperature: -65°C to +200°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, and Notes. Rows include Reverse Voltage, Repetitive Peak Reverse Voltage, Continuous Forward Current, Repetitive Peak Forward Current, Power Dissipation, Junction Temperature, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Diode Capacitance, Reverse Recovery Time, Thermal Resistance, etc.

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.
2.Device mounted on an FR4 printed-circuit board
3.When switched from I_F=10mA to I_R=60mA; R_L=100Ω; measured at I_R=1mA;see Fig.7

MINIMELF

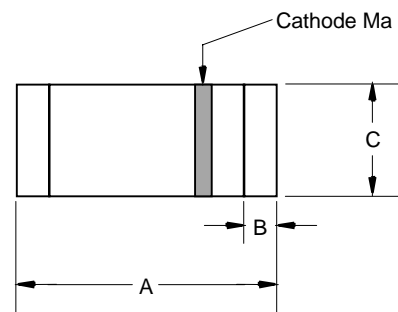
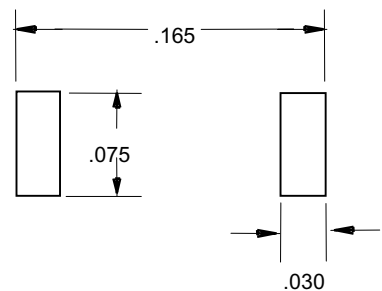
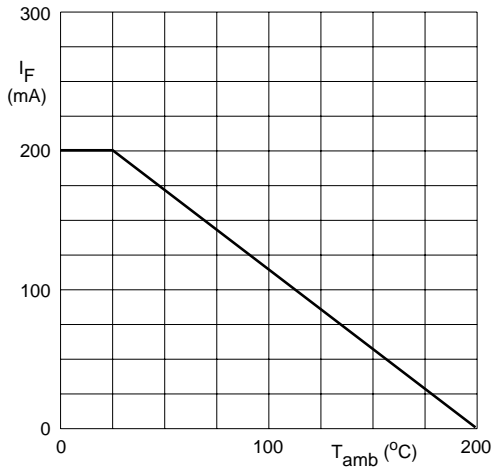


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C.

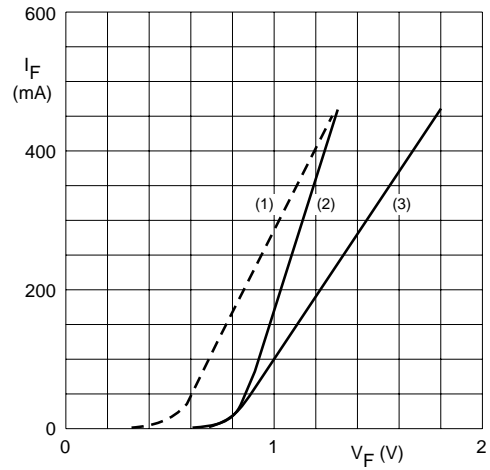
SUGGESTED SOLDER PAD LAYOUT





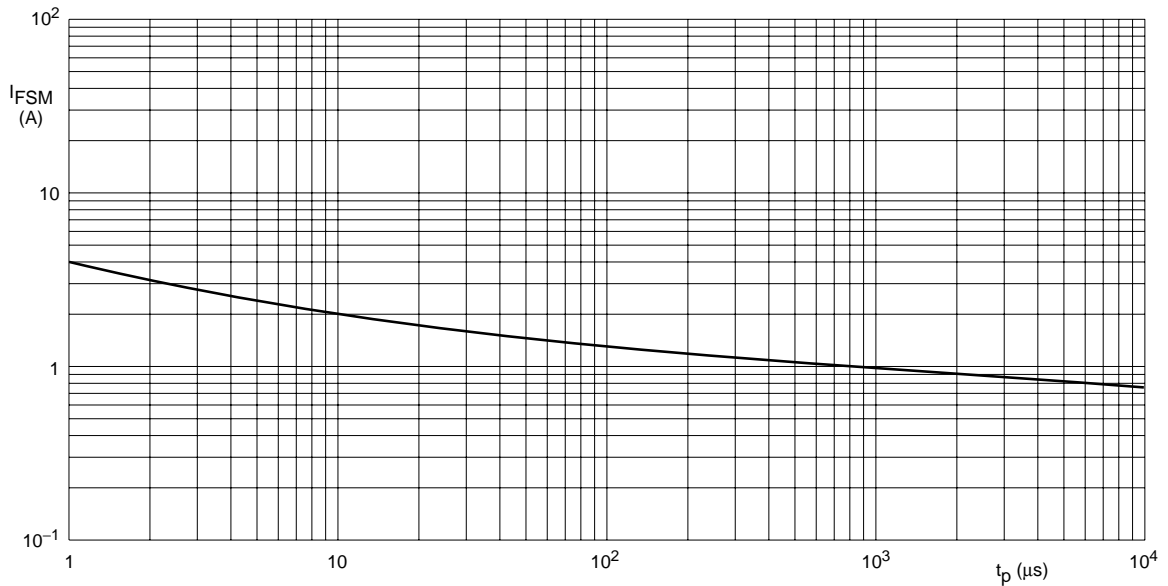
Device mounted on an FR4 printed-circuit board.

Fig.1 Maximum permissible continuous forward current as a function of ambient temperature.



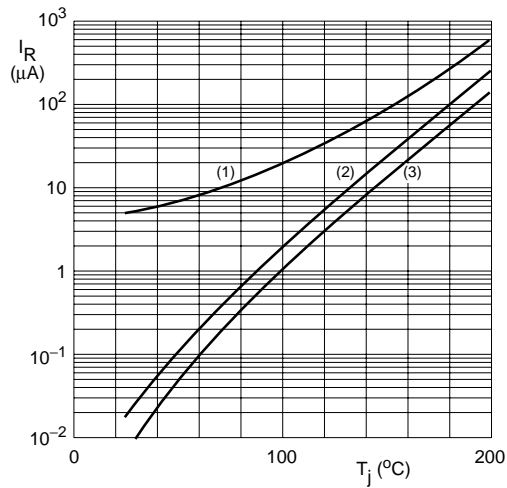
- (1) $T_j = 175\text{ °C}$; typical values.
- (2) $T_j = 25\text{ °C}$; typical values.
- (3) $T_j = 25\text{ °C}$; maximum values.

Fig.2 Forward current as a function of forward voltage.



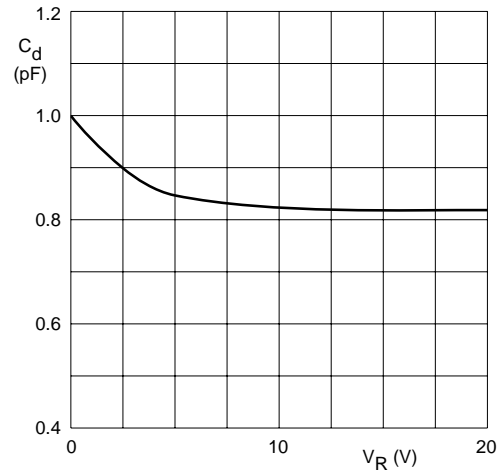
Based on square wave currents.
 $T_j = 25\text{ °C}$ prior to surge.

Fig.3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.



- (1) $V_R = 75 \text{ V}$; maximum values.
 (2) $V_R = 75 \text{ V}$; typical values.
 (3) $V_R = 20 \text{ V}$; typical values.

Fig.4 Reverse current as a function of junction temperature.



$f = 1 \text{ MHz}$; $T_j = 25 \text{ }^{\circ}\text{C}$.

Fig.5 Diode capacitance as a function of reverse voltage; typical values.



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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