

SMALL SIGNAL SCHOTTKY DIODE

VOLTAGE : 40 V

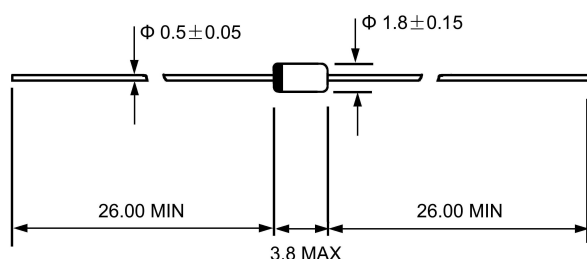
FEATURES

- ◇ For general purpose applications
- ◇ These diodes feature very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- ◇ This diode is also available in the Mini-MELF

MECHANICAL DATA

- ◇ Case: DO-35, glass case
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.005 ounces, 0.13 grams

DO - 35



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

MAXIMUM RATINGS

		BAT48	UNITS
Peak reverse voltage	V_R	40	V
Forward continuous current	I_F	350 ¹⁾	m A
Surge forward current at $t_p < 10$ ms	I_{FSM}	7.5 ¹⁾	A
Power dissipation	P_{tot}	330 ¹⁾	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	300 ¹⁾	°C/W
Junction temperature	T_j	-55 --- + 125	°C
Storage temperature range	T_{STG}	-55 --- + 150	°C

¹⁾Valid provided that leads at a distance of 4 mm from case are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS

		MIN	TYP	MAX	UNITS
Reverse breakover voltage at $I_R=100\mu A$	$V_{(BR)R}$	40	-	-	V
Forward voltage pulse test $t_p < 300\mu s, \delta < 2\%$ @ $I_F=0.1mA$ @ $I_F=1.0mA$ @ $I_F=10mA$ @ $I_F=50mA$ @ $I_F=200mA$ @ $I_F=500mA$	V_F	- - - - - -	- - - - - -	0.25 0.30 0.40 0.50 0.75 0.90	V
Leakage current pulse test $t_p < 300\mu s, \delta < 2\%$ @ $V_R=10V$ @ $V_R=10V, T_J=60^\circ C$ @ $V_R=20V$ @ $V_R=20V, T_J=60^\circ C$ @ $V_R=40V$ @ $V_R=40V, T_J=60^\circ C$	I_R	- - - - - -	- - - - - -	2.0 15 5.0 25 25 50	μA
Junction capacitance at $V_R=1V$ $f=1MHz$	C_J	-	12	-	pF

¹⁾Valid provided that leads at a distance of 4 mm from case are kept at ambient temperature(DO-35).

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