

### SMALL SIGNAL SCHOTTKY DIODES

VOLTAGE RANGE: 50 V  
CURRENT: 0.2 A

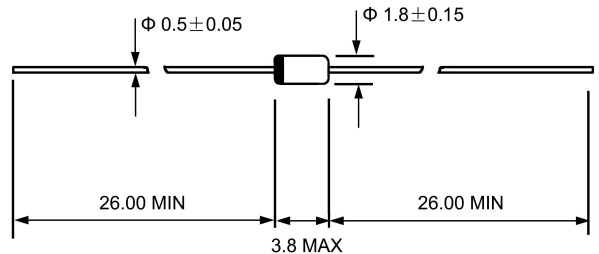
#### FEATURES

- ◇ For general purpose applications
- ◇ This diodes features very low turn-on voltage and fast switching. This devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- ◇ Metal silicon schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications

#### MECHANICAL DATA

- ◇ Case: JEDEC DO--35, glass case
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: Approx. 0.13 gram

#### DO - 35(GLASS)



Dimensions in millimeters

#### ABSOLUTE RATINGS

	Symbols	Value	UNITS
Continuous reverse voltage	$V_R$	50.0	V
Forward continuous current @ $T_A=25^\circ\text{C}$	$I_F$	200 <sup>1)</sup>	mA
Repetitive peak forward current @ $t_p < 1\text{s}, \delta < 0.5, T_A=25^\circ\text{C}$	$I_{FRM}$	500 <sup>1)</sup>	mA
Power dissipation @ $T_A=25^\circ\text{C}$	$P_{tot}$	200 <sup>1)</sup>	mw
Junction temperature	$T_J$	125	$^\circ\text{C}$
Ambient operating temperature range	$T_A$	-55 ---+ 125	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 ---+ 150	$^\circ\text{C}$

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

#### ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage tested with 100 $\mu$ A pulses	$V_R$	50.0			V
Forward voltage Pulse test $t_p < 300 \mu\text{s}, \delta < 2\%$ @ $I_F=0.1\text{mA}$ @ $I_F=1\text{mA}$ @ $I_F=10\text{mA}$ @ $I_F=30\text{mA}$ @ $I_F=100\text{mA}$	$V_F$		0.2 0.275 0.365 0.46 0.7	0.3 0.38 0.45 0.6 0.9	V
Leakage current $V_R=40\text{V}$	$I_R$			5.0	$\mu\text{A}$
Junction capacitance at $V_R=1\text{V}, f=1\text{MHz}$	$C_J$			8	pF
Reverse recovery time form $I_F=10\text{mA}$ to $I_R=10\text{mA}$ to $I_R=1\text{mA}$	$t_{rr}$			5	ns
Thermal resistance junction to ambient air	$R_{\theta JA}$			300 <sup>1)</sup>	$^\circ\text{C/W}$

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