

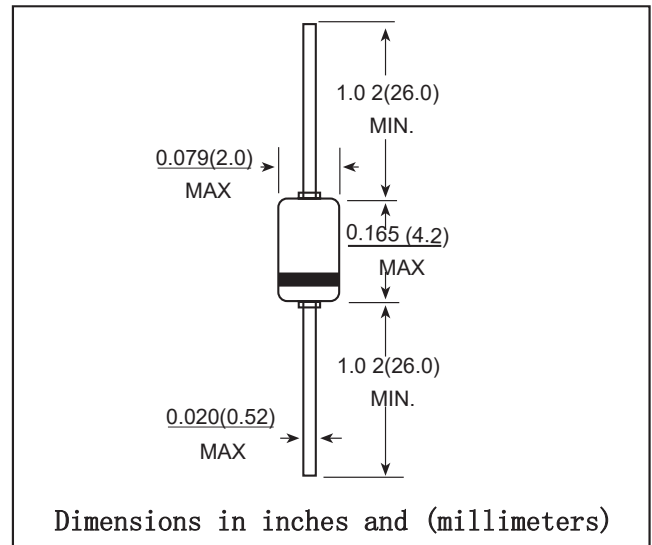
DO-35 SMALL SIGNAL SCHOTTKY DIODE

Features

- For general purpose applications
- These diode is also available in the Mini-MELF case with type designation LL86
- These device are protected by a PN junction guard ring against excessive voltage ,such as electrostatic discharges

MECHANICAL DATA

- Case: DO-35 Glass
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Item	Symbol	Unit	Conditions	Max
Continuous reverse voltage	V_R	V		50
Forward continuous current	I_F	mA	$T_a=25^\circ\text{C}$	200
Repetitive Peak Forward Current	I_{FSM}	mA	$t < 1s, \delta < 0.5, T_a=25^\circ\text{C}$	300
Power dissipation	P_{tot}	mW	$T_a=65^\circ\text{C}$	200
Maximum junction temperature	T_j	$^\circ\text{C}$		125
Ambient operating temperature range	T_A	$^\circ\text{C}$		-55 to +125
Storage temperature range	T_{stg}	$^\circ\text{C}$		-5 to +150
Junction ambient	R_{thJA}	$^\circ\text{C/W}$	On PC board 50mm × 50mm × 1.6mm	300

Electrical Specification ($T_A=25^\circ\text{C}$ unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Reverse breakdown voltage	$V_{(BR)R}$	V	$I_R=10\mu\text{A}$ (pulsed)	50	
Leakage current	I_R	μA	$V_R=25\text{V}$	0.2	0.5
Forward voltage pulse test $t_p < 300\mu\text{s}, s < 2\%$	VF	V	$I_F=0.1\text{mA}$	0.2	0.3
		V	$I_F=1\text{mA}$	0.272	0.380
		V	$I_F=10\text{mA}$	0.365	0.450
		V	$I_F=30\text{mA}$	0.460	0.6
		V	$I_F=100\text{mA}$	0.700	0.9
Capacitance	C_{tot}	pF	$V_R=1\text{V}, f=1\text{MHz}$		8
Reverse recovery time	t_{rr}	ns	$I_F=I_R=10\text{mA}, I_R=0.1\text{mA}$		5

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Derating curve.

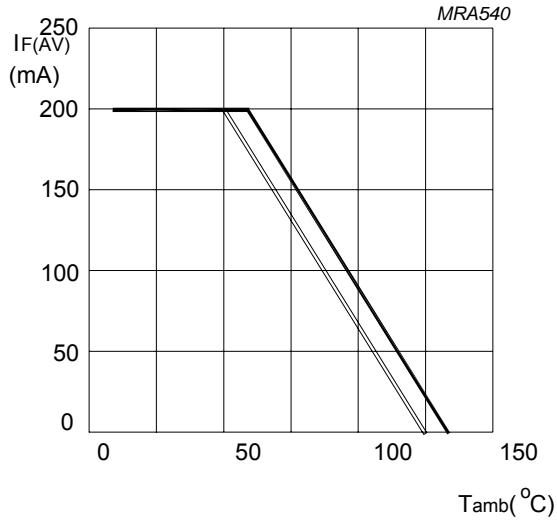


Fig.2 Forward current as a function of forward voltage; typical values.

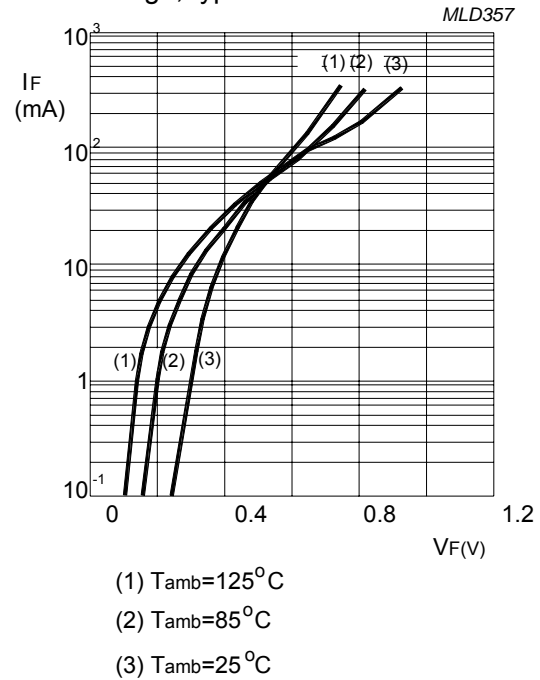


Fig.3 Reverse current as a function of reverse voltage; typical values.

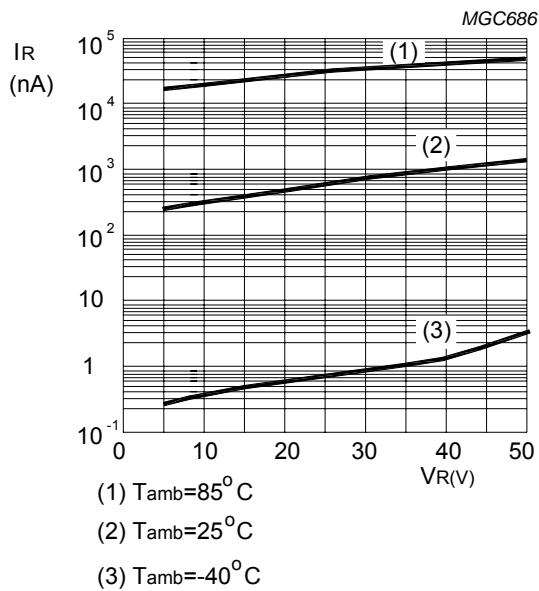


Fig.4 Diode capacitance as a function of reverse voltage; typical values.

