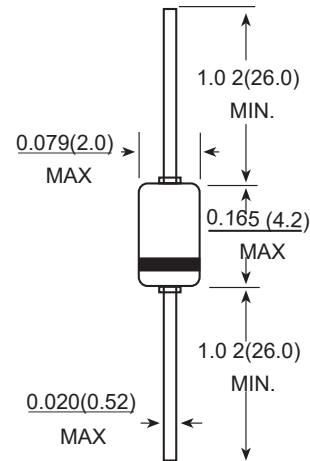


DO-35 SMALL SIGNAL SCHOTTKY DIODE
Features

- V_R 30V
- I_{FM} 300mA
- Applications where a very low forward voltage is required

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Item	Symbol	Unit	Conditions	Max
Continuous reverse voltage	V_R	V		30
Forward continuous current	I_F	mA	$T_A=25^\circ\text{C}$	200
Peak forward current	I_{FM}	mA	$T_A=25^\circ\text{C}$	300
Surge forward current	I_{FSM}	mA	$t_p \leq 1\text{s}, T_A=25^\circ\text{C}$	600
Power dissipation	P_{tot}	mW	$T_A=65^\circ\text{C}$	200
Maximum junction temperature	T_j	°C		125
Ambient operating temperature range	T_A			-65 to +125
Storage temperature range	T_{stg}	°C		-65 to +150
Junction ambient	R_{thJA}	°C/W	On PC board 50mm×50mm×1.6mm	250

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)	30	
Leakage current	I_R	uA	$V_R=25\text{V}$		2
Forward voltage pulse test $t_p < 300\mu\text{s}, s < 2\%$	VF	V	$I_F=0.1\text{mA}$		0.24
		V	$I_F=1\text{mA}$		0.32
		V	$I_F=10\text{mA}$		0.4
		V	$I_F=30\text{mA}$		0.5
		V	$I_F=100\text{mA}$		0.8
Capacitance	C_{tot}	pF	$V_R=1\text{V}, f=1\text{MHz}$		10
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--ADMISSIBLEPOWERDISSIPATIONVS. AMBIENT

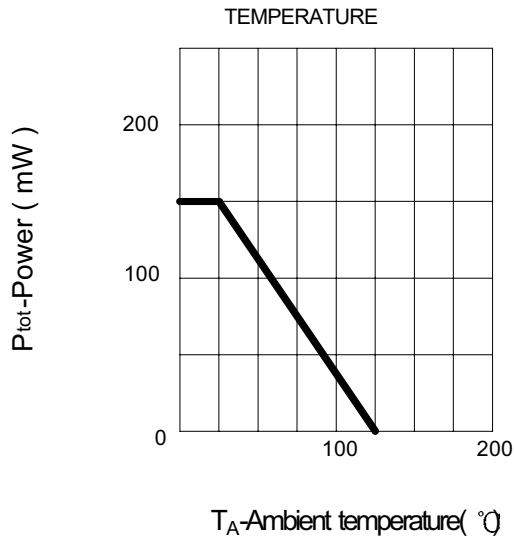


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

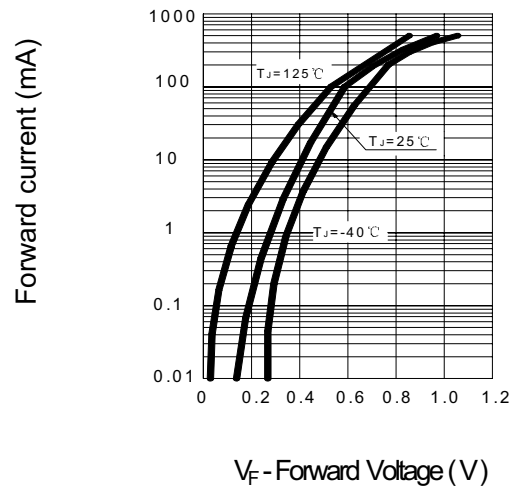


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

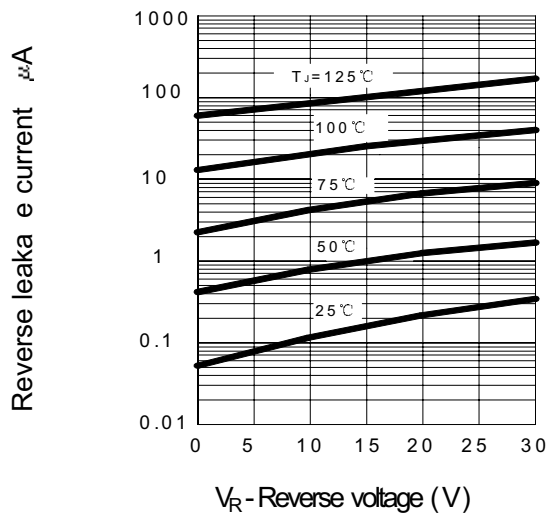


FIG.4 - TYPICAL JUNCTION CAPACITANCE

