

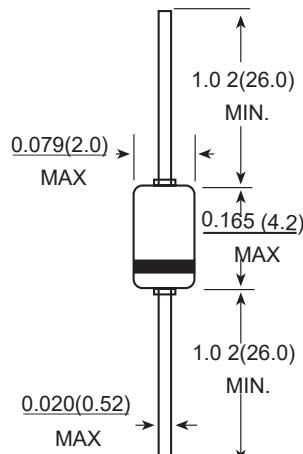
DO-35 SMALL SIGNAL SCHOTTKY DIODE

Features

- VR 45V
- I_{FAV} 50mA
- Use in super high speed switching circuits, small current rectifier

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)

Parameters		Symbols	Value		UNITS
			1N60P		
Repetitive peak reverse voltage		V _{RRM}	45		V
Forward continuous current	T _A =25°C	I _F	50		mA
Peak forward surge current (t=1s)		I _{FSM}	500		mA
Storage and junction temperature range		T _{STG} /T _J	- 55 ---- + 125		°C
Maximum lead temperature for soldering during 10s at 4mm from case		T _L	230		°C

Electrical Specification (T_A=25°C unless otherwise specified)

Parameters	Symbols	Test Conditions	Value			UNITS
			Min.	Typ.	Max.	
Forward voltage	V _F	I _F =1mA		0.24	0.5	V
		I _F =200mA		0.65	1.0	
Reverse current	I _R	V _R =15V		0.5	1.0	µA
Junction capacitance	C _J	V _R =10V f=1MHz		6.0		pF
Detection efficiency (See FIG. 4)	η	V _f =3V f=30MHz C _L =10pF R _L =3.8KΩ		60.0		%
Reverse recovery time	t _{rr}	I _F =I _R =1mA I _{rr} =1mA R _C =100Ω			1.0	ns
Thermal resistance junction to ambient	R _{θJA}			400		°C/W

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)

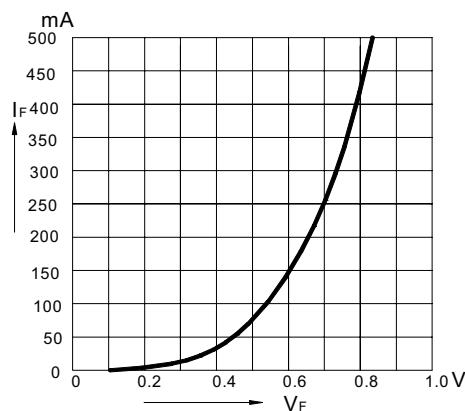


FIG2 – REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

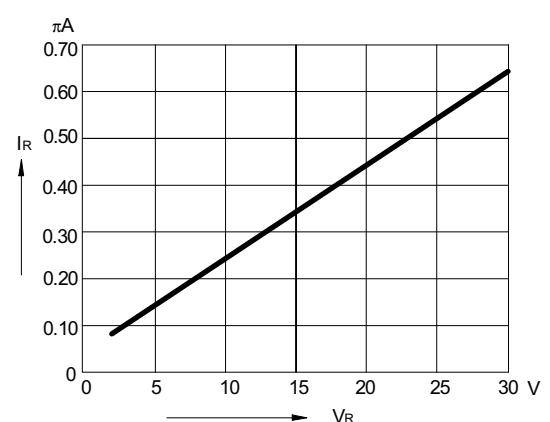


FIG.3 – JUNCTION CAPACITANCE VERSUS CONTINUOUS REVERSE APPLIED VOLTAGE

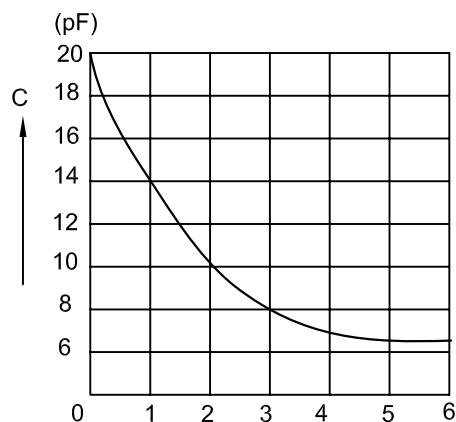


FIG4 – DETECTION EFFICIENCY MEASUREMENT CIRCUIT

