1N60/1N60P

Schottky Barrier Diode

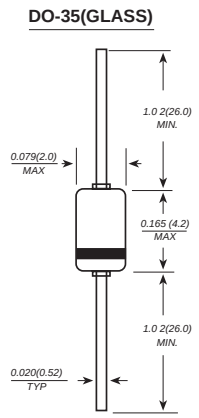
VOLTAGE RANGE: 40V CURRENT:30/50A

Features

- V_R 40V
- I_{FAV} 30mA
- 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

Ratings at 25℃ ambient temperature unless otherwise specified

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage		1N60	VRRM	40	V
		1N60P	VRRM	45	V
Peak forward surge current	tp≤1S	1N60	IFSM	150	mA
		1N60P	IFSM	500	mA
Forward continuous current	Ta=25℃	1N60	IF	30	mA
		1N60P	IF	50	mA
Storage temperature range			Tstg	-65-125	℃

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

Parameter	Test Conditions	Type	Symbol	min	Typ	Max	Unit
Forward voltage	IF=1mA	1N60	VF		0.32	0.5	V
		1N60P	VF		0.24	0.5	V
	IF=30mA	1N60	VF		0.65	1.0	V
	IF=200mA	1N60P	VF		0.65	1.0	V
Reverse current	VR=15V	1N60	IR		0.1	0.5	uA
		1N60P	IR		0.5	1.0	uA
Junction capacitance	VR=1V,f=1MHZ	1N60	CJ		2.0		pF
	VR=10V,f=1MHZ	1N60P	CJ		6.0		pF
Reverse recovery time	IF=IR=1mAIrr=1mARc=100Ω		Trr			1.0	ns

RATINGS AND CHARACTERISTIC CURVES

FIG1: Forward Current vs. Forward Voltage

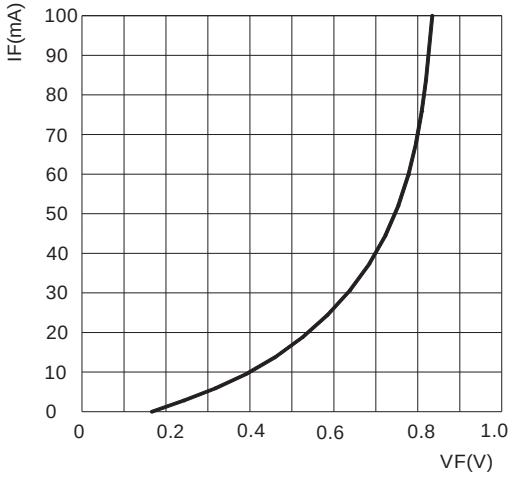


FIG2:Reverse Current vs. Reverse Voltage

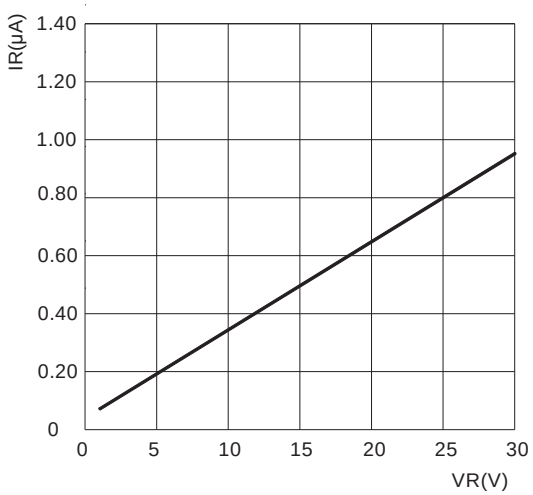


FIG3:Junction Capacitance vs. Continuous Reverse Applied Voltage

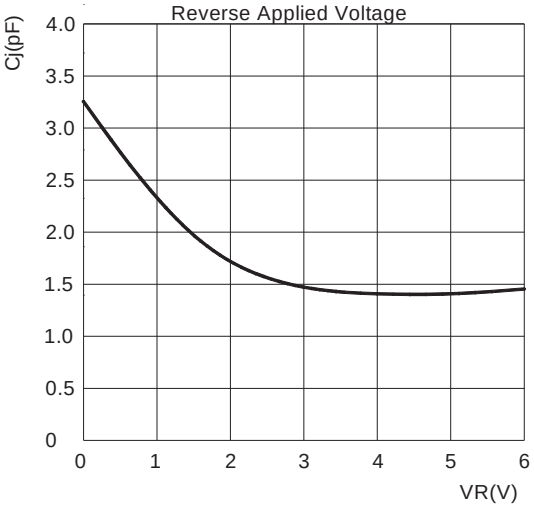


FIG4: Detection efficiency Measurement Circuit