



Small Signal Schottky Diodes

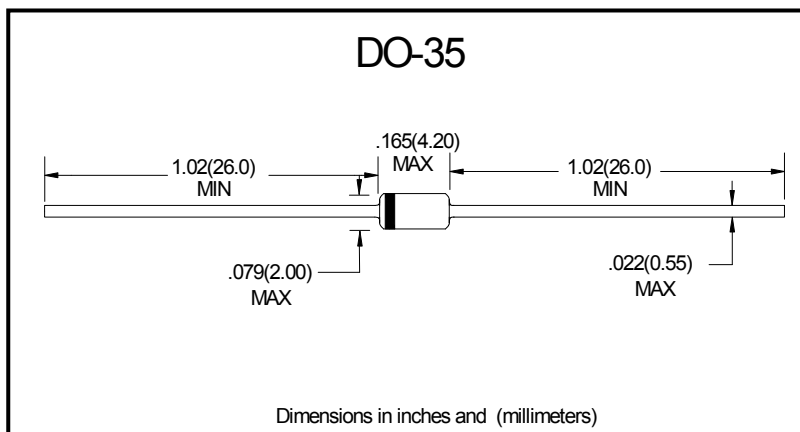
■ Features

- V_R 40V
- I_{FAV} 30mA

■ Applications

- Use in super high speed switching circuits, small current rectifier

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage		1N60	VRRM	40	V
		1N60P	VRRM	45	V
Peak forward surge current	$t_p \leq 1S$	1N60	IFSM	150	mA
		1N60P	IFSM	500	mA
Forward continuous current	$T_a = 25^\circ C$	1N60	IF	30	mA
		1N60P	IF	50	mA
Storage temperature range			Tstg	-65-125	$^\circ C$

■ Electrical Characteristics ($T_a = 25^\circ C$ 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
		1N60P	VF		0.65	1.0	V
Reverse current	VR=15V	1N60	IR		0.1	0.5	μA
		1N60P	IR		0.5	1.0	μA
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=1mA, $t_{rr}=1\mu s$, $R_c=100 \Omega$		Trr			1.0	ns

■特性曲线（典型） Characteristics(Typical)

图1：正向电流与正向电压的关系

FIG1: Forward Current vs. Forward Voltage

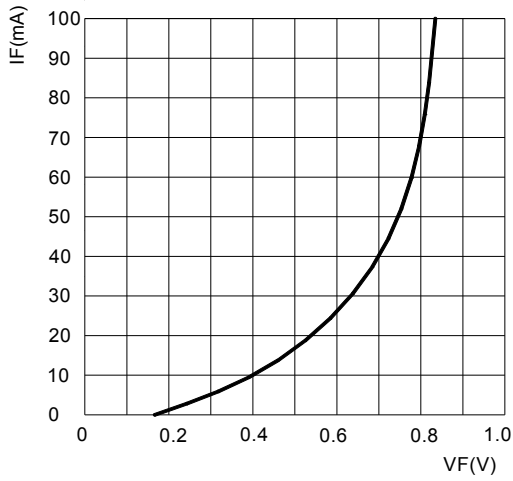


图2：反向电流与反向电压的关系

FIG2: Reverse Current vs. Reverse Voltage

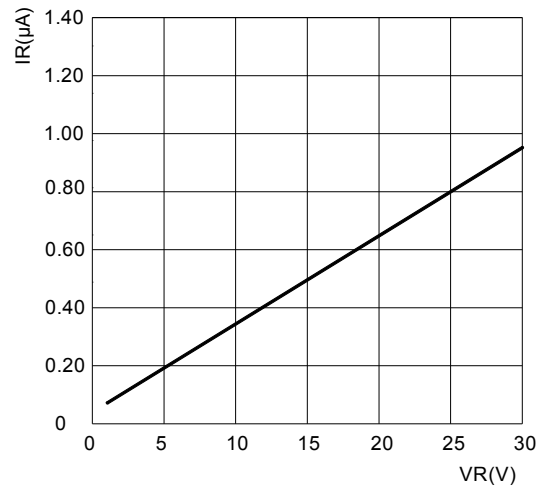


图3：结电容与反连续向电压的关系

FIG3: Junction Capacitance vs. Continuous Reverse Applied Voltage

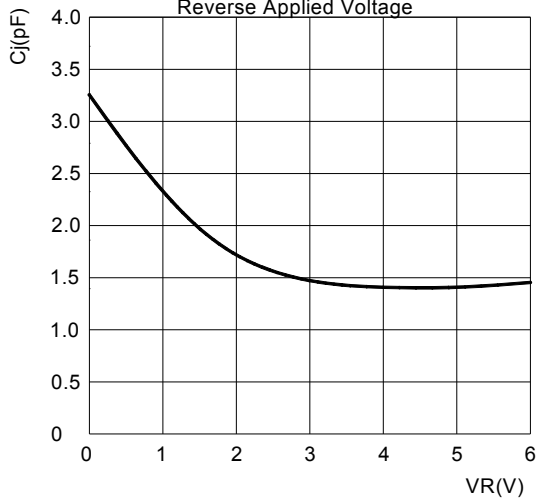


图4：效率检测的测量电路

FIG4: Detection efficiency Measurement Circuit

