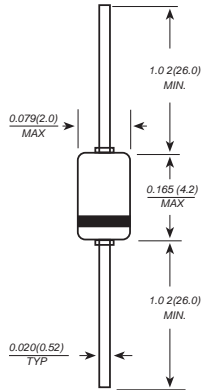


1N5711 THRU 1N6263

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 60 to 70 Volts P_{tot} - 400 mW

DO-35(GLASS)



Dimensions in inches and (millimeters)

FEATURES

- ◆ Fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
250°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-35 glass case

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.14 grams

ABSOLUTE RATINGS

		SYMBOLS	Value	UNITS
Repetitive peak reverse voltage	1N5711	V_{RRM}	70	V
	1N6263	V_{RRM}	60	
Power dissipation (Infinite heat sink)		P_{tot}	400*	mW
Maximum single cycle surge 10ms square wave		I_{FSM}	2.0	A
Junction temperature		T_J	125	°C
Storage temperature range		T_{STG}	-55 to +150	°C

*Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SYMBOLS	Min.	Typ.	Max.	UNITS
Reverse breakover voltage at $I_R=10mA$	1N5711	V_R	70			V
	1N6263	V_R	60			
Leakage current at $V_R=50V$		I_R			200	nA
Forward voltage drop at $I_F=1mA$ $I_F=15mA$	$I_F=1mA$	V_F			0.41	V
	$I_F=15mA$	V_F			1.0	
Junction capacitance at $V_R=0V$, $f=1MHz$		C_J			2.0	pF
Reverse recovery time at $I_F=I_R=5mA$, recover to 0.1 I_R		t_{rr}			1.0	ns
Thermal resistance, junction to ambient		R_{QA}			0.3	K/mW

RATINGS AND CHARACTERISTIC CURVES 1N5711 THRU 1N6263

FIG. 1-TYPICAL VARIATION OF FWD.CURRENT VS FWD. VOLTAGE FOR PRIMARY CONDUCTION THROUGH THE SCHOTTKY BARRIER

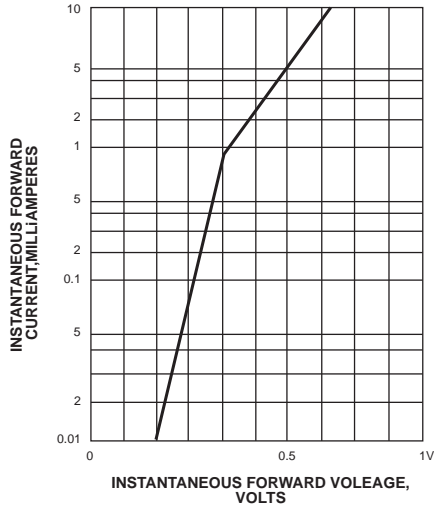


FIG. 2-TYPICAL FORWARD CONDUCTION CURVE OF COMBINATION SCHOTTKY BARRIER AND PN JUNCTION GUARD RING

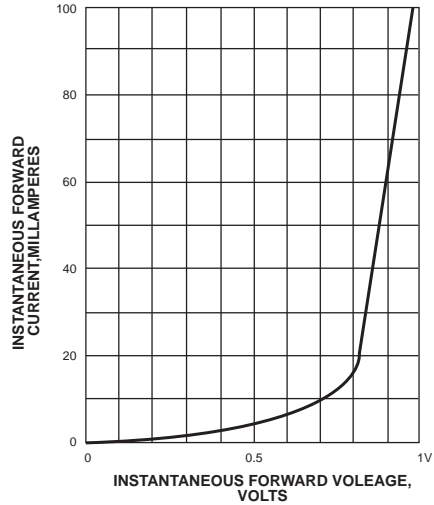


FIG. 3-TYPICAL VARIATION OF REVERSE CURRENT AT VARIATION TEMPERATURES

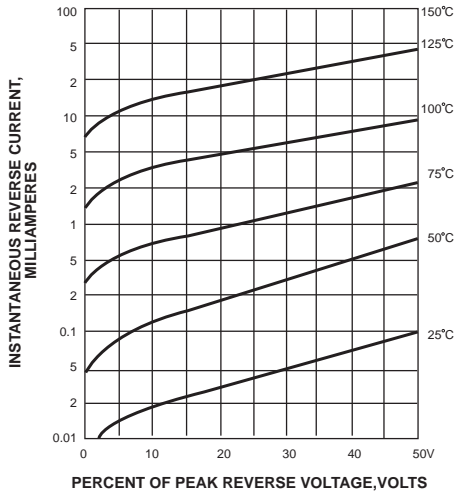


FIG. 4-TYPICAL CAPACITANCE CURVE AS A FUNCTION OF REVERSE VOLTAGE

