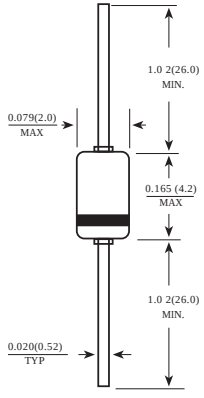
1N5711 THRU 1N6263

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℃/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
Repetitive peak reverse voltage 1N6263	V_{RRM}	60	V
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℃ amblent temperature unless otherwise specified

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

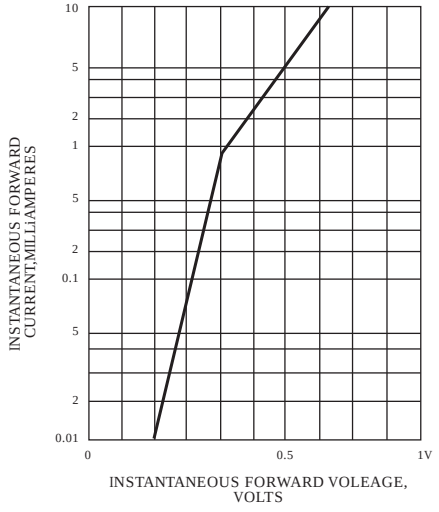


FIG. 2-TYPICAL FORWARD CONDUCTION CURVE OF COMBINATION SCHOTTKY BARRIER AND PN JUNCTION GUARD RING

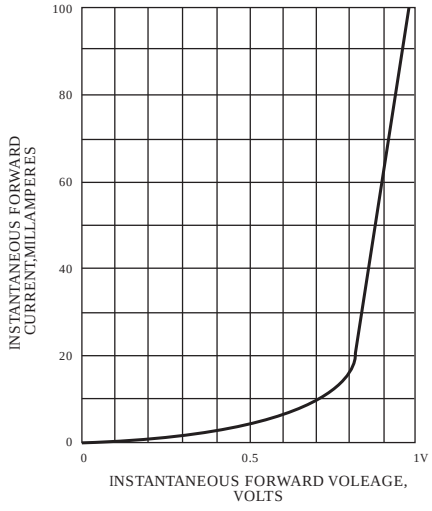


FIG. 3-TYPICAL VARIATION OF REVERSE CURRENT AT VARIATION TEMPERATURES

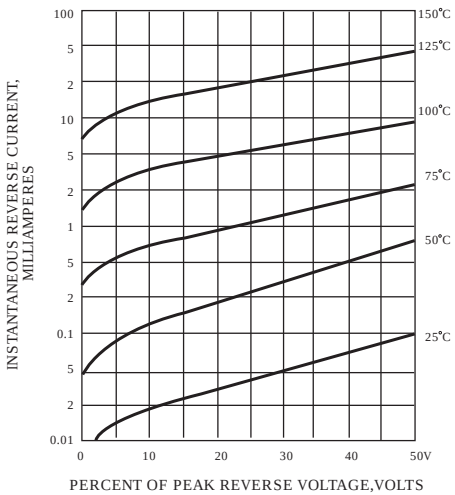


FIG. 4-TYPICAL CAPACITANCE CURVE AS A FUNCTION OF REVERSE VOLTAGE