

SMALL SIGNAL SCHOTTKY DIODES

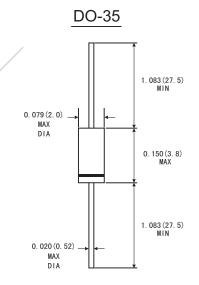
FEATURES

- · For general purpose applications
- Metal-on-silicon junction Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications
- These diodes are also available in the MinMELF case with type designation LL5711 and LL6263.
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- · Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- · Case: DO-35 glass case
- · Polarity: Color band denotes cathode end
- · Weight: Approx. 0.13 gram

ABSOLUTE RATINGS (LIMITING VALUES)



Dimensions in inches and (millimeters)

		Symbols	Value	Units		
Peak Reverse Voltage	1N5711 1N6263	Vrrm Vrrm	70 60	V V		
Power Dissipation (infinite Heat Sink)		Ptot	400 1)	mW		
Forward Continuous Current	T _A =25°C	IF	15	mA		
Maximum Single cycle surge 10ms square wave		IFSM	2.0	Α		
Junction Temperature		TJ	150	°C		
Storage Temperature Range		Tstg	-55 to+150	°C		
1) 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.	Тур.	Max.	Unis
Reverse breakover voltage 1N5711 at IR=10mA 1N6263	VR VR	70 60			V V
Leakage current at V _R =50V	lR			200	nA
Forward voltage drop at I=1mA I=15mA	VF VF			0.41 1.0	V V
Junction Capacitance at V _R =0V ,f=1MHz	Cı			2.0	pF
Reverse Recovery time at IF=IR=5mA,recover to 0.1 IR	trr			1	ns
Thermal resistance	Reja			400	°C/W

RATINGS AND CHARACTERISTICS CURVES 1N5711 AND 1N6263

Fig.1 Typical variation of fwd. current vs forward. voltage for primary conduction through the Schottky barrier

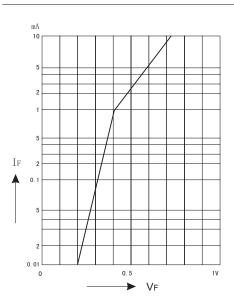
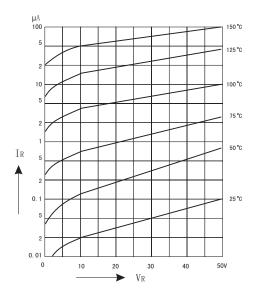


Fig.3 Typical variation of reverse current at various temperatures



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Fig.2 Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

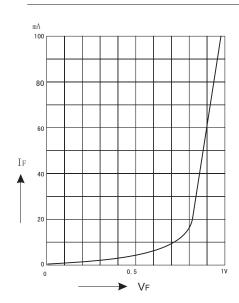


Fig.4 Typical capacitance curve as a function of reverse voltage

