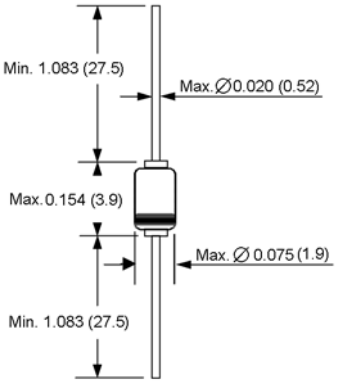
1N5711 and 1N6263

Small-Signal Diode
Schottky Diodes

Features

- For general purpose applications
- Metal-on-silicon 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.
- This diode is also available in the MiniMELF case with type designation LL5711 and LL6263.

DO-204AH (DO-35 Glass)



Dimensions in inches and (millimeters)

Mechanical Data

- Case: DO-35 Glass Case
- Weight: approx. 0.13g

Maximum Ratings and Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter		Symbol	Value	Unit
Peak inverse voltage	1N5711 1N6263	V_{RRM}	70 60	Volts
Power dissipation (Infinite heatsink)		P_{tot}	400 (1)	mW
Maximum single cycle surge 10 us square wave		I_{FSM}	2.0	Amps
Thermal resistance junction to ambient air		$R_{\theta JA}$	0.3 (1)	°C/mW
Junction temperature		T_j	125 (1)	°C
Storage temperature range		T_S	-55 to +150 (1)	°C

Electrical Characteristics

(T_J=25°C unless otherwise noted.)

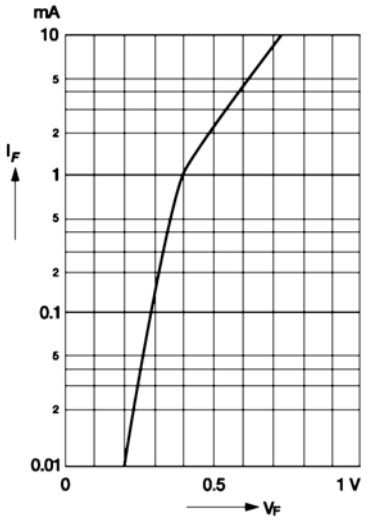
Parameter		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	1N5711 1N6263	$V_{(BR)R}$	I_R=10uA	70 60	- -	- -	Volts
Leakage current		I_R	V_R=50V	-	-	200	nA
Forward voltage drop		V_F	I_F=1mA I_F=15mA	- -	- -	0.41 1.0	Volt
Junction capacitance		C_{tot}	V_R=0V, f=1MHz	-	-	2.2	pF
Reverse recovery time		t_{rr}	I_F=I_R=5mA, recovery to 0.1I_R	-	-	1	ns

Notes: 1. Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.

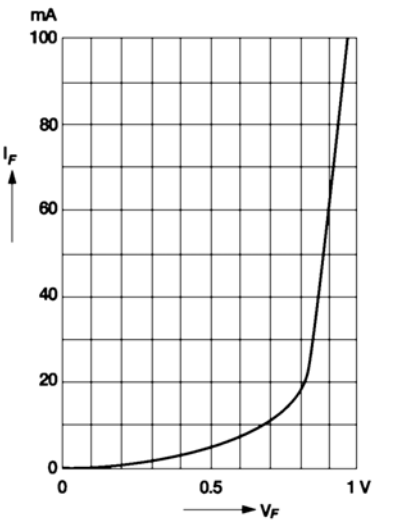
RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

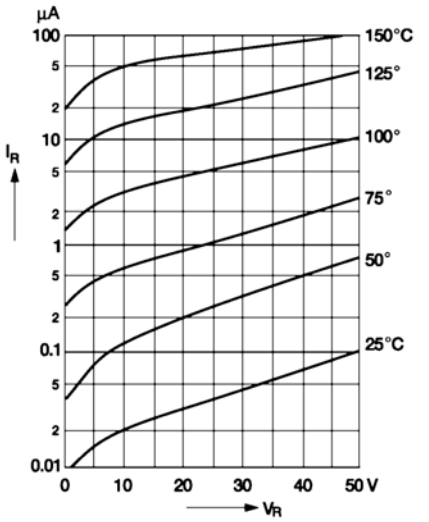
Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier



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



Typical variation of reverse current at various temperatures



Typical capacitance curve as a function of reverse voltage