

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Peak Inverse Voltage	$V_{RRM}$	1N5711 70	V
1N6263 60			
Power Dissipation (Infinite Heatsink)	$P_{tot}$	400 <sup>(1)</sup>	mW
Maximum Single Cycle Surge 10 $\mu$ s Square Wave	$I_{FSM}$	2.0	A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 <sup>(1)</sup>	$^{\circ}C/mW$
Junction Temperature	$T_j$	125 <sup>(1)</sup>	$^{\circ}C$
Storage Temperature Range	$T_s$	-55 to +150 <sup>(1)</sup>	$^{\circ}C$

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

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^{\circ}C$ unless otherwise specified)

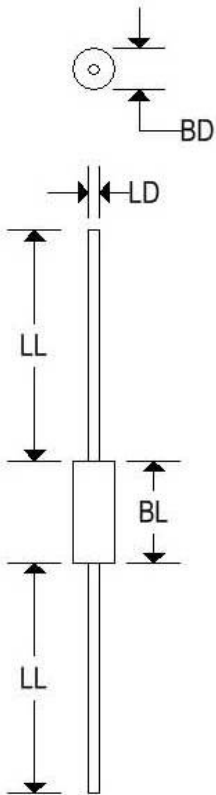
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	1N5711 70	-	-	V	
1N5712			20	-	-		
1N6263			60	-	-		
Leakage Current	$I_R$	$V_R=50V$	-	-	200	nA	
1N5712		$V_R = 16V$	-	-	150		
Forward Voltage Drop	$V_F$	$I_F=1mA$	-	-	0.41	V	
1N5711, 1N6263		$I_F=15mA$	-	-	1.0		
1N5712		$I_F = 35mA$	-	-	1.0		
Junction Capacitance	$C_{tot}$	$V_R=0V, f=1MHz$	1N5711	-	-	2.0	pF
1N5712			-	-	2.0		
1N6263			-	-	2.2		

# 1N5711, 1N5712 & 1N6263

## SCHOTTKY RECTIFIERS

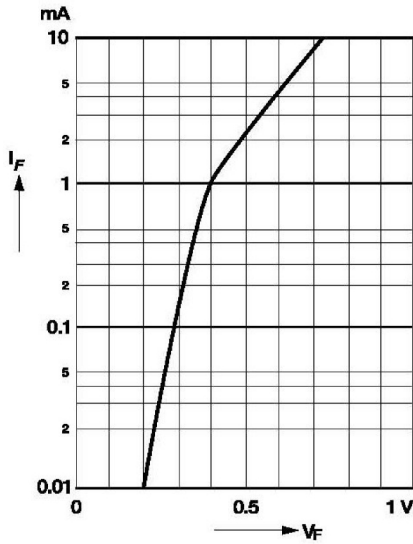
### MECHANICAL CHARACTERISTICS

<b>Case:</b>	DO-35
<b>Marking:</b>	Body painted, alpha-numeric
<b>Polarity:</b>	Cathode band

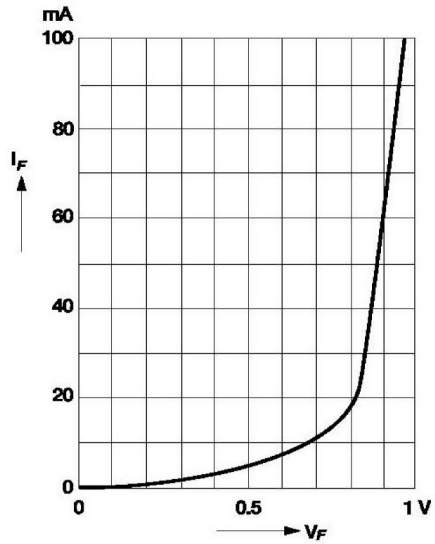


	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

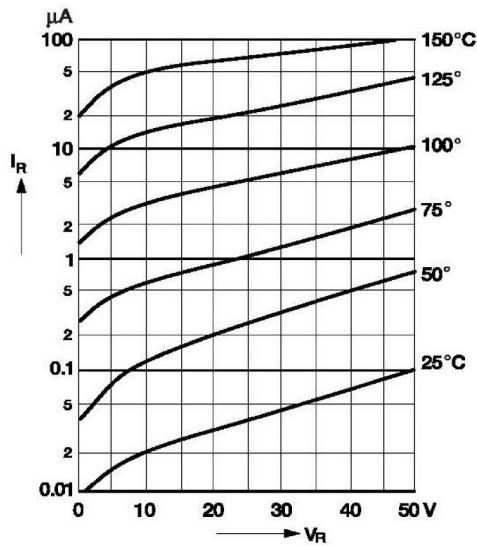
Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier



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

