

1N457(A)

SMALL SIGNAL DIODE

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

Characteristics	Symbol	Value	Unit
Maximum repetitive reverse voltage	V_{RRM}	70	V
Average rectified forward current	$I_{F(AV)}$	200	mA
Non-repetitive peak forward surge current Pulse width = 1.0s Pulse width = 1.0microsecond	I_{FSM}	1.0 4.0	A
Storage temperature range	T_{stg}	-65 to +200	°C
Operating junction temperature	T_J	175	°C
Power dissipation	P_D	500	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	300	°C/W

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

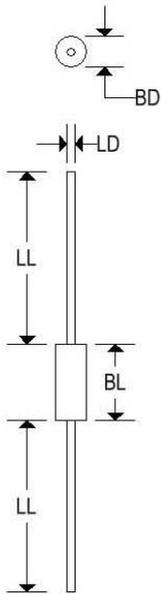
Characteristics	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown voltage	BV	$I_R = 100\mu\text{A}$	70	-	-	V
Forward voltage	V_F	$I_F = 20\text{mA}$	-	-	1.0	V
		$I_F = 100\text{mA}$	-	-	1.0	
Reverse current	I_R	$V_R = 60\text{V}$	-	-	25	nA
		$V_R = 60\text{V}, T_A = 150^\circ\text{C}$	-	-	5	μA
Total capacitance	C	$V^R = 0, f = 1.0\text{MHz}$	-	-	8.0	pF

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MECHANICAL CHARACTERISTICS

Case	DO-35
Marking	Body painted, alpha-numeric
Polarity	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