

1N645-1N649

STANDARD RECOVERY RECTIFIERS

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

Rating	Symbol	Value	Unit
Power dissipation at 3/8" from body, $T_L = 75^\circ\text{C}$	P_{tot}	600	mW
Average forward current at $T_L = 75^\circ\text{C}$	I_{AV}	400	mA
Operating and storage temperature range	T_J, T_{stg}	-65 to 175	$^\circ\text{C}$
Thermal impedance	$Z_{\Theta\text{JX}}$	35	$^\circ\text{C/W}$
Thermal resistance	$R_{\Theta\text{JL}}$	250	$^\circ\text{C/W}$

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

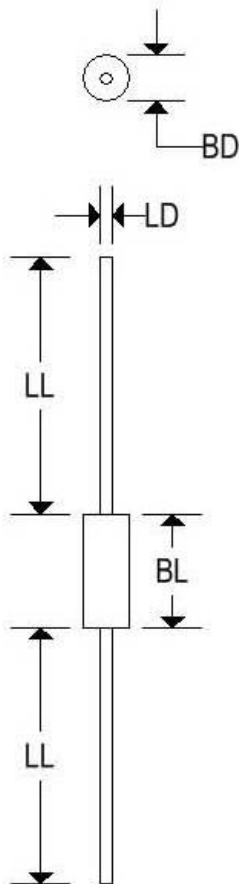
Part number	Reverse voltage	Minimum breakdown voltage@ 100 μA	Maximum average rectified current		Forward voltage drop		Maximum reverse leakage current		Maximum surge current ⁽¹⁾	Typical junction capacitance @ -12V
	V_R	B_V	I_O	I_O	$V_F @ I_F = 400\text{mA}$		$I_R @ V_R$		I_{FSM}	C_O
	Volts	Volts	25 $^\circ\text{C}$	150 $^\circ\text{C}$	Min	Max	25 $^\circ\text{C}$	150 $^\circ\text{C}$	Amps	pF
1N645	225	275	0.4	0.15	0.8	1.0	0.05	50	5	20
1N646	300	360	0.4	0.15	0.8	1.0	0.05	50	5	20
1N647	400	480	0.4	0.15	0.8	1.0	0.05	50	5	20
1N648	500	600	0.4	0.15	0.8	1.0	0.05	50	5	20
1N649	600	720	0.4	0.15	0.8	1.0	0.05	50	5	20

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MECHANICAL CHARACTERISTICS

Case	DO-35
Marking	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