

# 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	$Z_{\theta JX}$	35	$^\circ\text{C}/\text{W}$
Thermal resistance	$R_{\theta JL}$	250	$^\circ\text{C}/\text{W}$

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

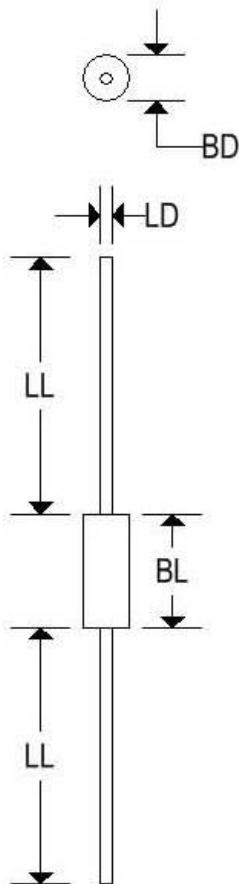
Part number	Reverse voltage	Minimum breakdown voltage@ 100 $\mu\text{A}$	Maximum average rectified current		Forward voltage drop		Maximum reverse leakage current		Maximum surge current <sup>(1)</sup>	Typical junction capacitance @ -12V
	$V_R$	$B_V$	$I_o$	$I_o$	$V_F @ I_F = 400\text{mA}$		$I_R @ V_R$		$I_{FSM}$	$C_o$
			25 $^\circ\text{C}$	150 $^\circ\text{C}$	Min	Max	25 $^\circ\text{C}$	150 $^\circ\text{C}$		
	Volts	Volts	Amps	Amps	Volts	Volts	$\mu\text{A}$	$\mu\text{A}$	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

<b>Case</b>	DO-35
<b>Marking</b>	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