

FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix)

MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit
Non-repetitive peak reverse voltage	V_{RSM}	-	1500	Volts
Repetitive peak reverse voltage	V_{RRM}	-	1500	Volts
Continuous reverse voltage	V_R	-	1400	Volts
Working peak forward current $T_{tp} = 80^{\circ}\text{C}$, lead length = 10mm	I_{FWM}	-	4	Amps
Repetitive peak forward current	I_{FRM}	-	8	Amps
Non-repetitive peak forward current $t = 10\text{ms}$ half sinewave, $T_J = T_{Jmax}$ prior to surge $V_R = V_{RRMmax}$	I_{FSM}	-	50	Amps
Storage temperature	T_{stg}	-65	+175	$^{\circ}\text{C}$
Junction temperature	T_J	-65	+150	$^{\circ}\text{C}$
Thermal resistance, junction to tie-point Lead length = 10mm	R_{thj-tp}	-	25	KW
Thermal resistance, junction to ambient Device mounted on epoxy galss printed circuit board: 1.5mm thick; of Cu layer $\geq 40\mu\text{m}$ Mounted with additional printed circuit board for heat sink purposes	R_{thj-a}	-	75 40	K/W

ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

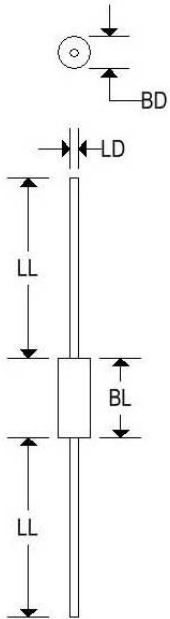
Parameter	Symbol	Value	Unit
Maximum forward voltage $I_F = 4\text{A}$, $T_J = T_{Jmax}$ $I_F = 4\text{A}$	V_F	1.6 1.95	Volts
Maximum reverse current $V_R = V_{Rmax}$, $T_J = 150^{\circ}\text{C}$	I_R	150	μA
Maximum reverse recovery time When switched from $I_F = 0.5\text{A}$ to $I_R = 1\text{A}$, measured at $I_R = 0.25\text{A}$	t_{rr}	250	ns
Maximum forward recovery time When switched to $I_F = 5\text{A}$ in 50ns, $T_J = T_{Jmax}$	t_{fr}	250	ns

BY428

Damper Diode
SOD-64

MECHANICAL CHARACTERISTICS

Case	SOD-64
Marking	Alpha-numeric
Polarity	Cathode band



	SOD-64			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.169	0.250	4.300	6.350
BL	-	0.300	-	7.620
LD	0.048	0.053	1.219	1.350
LL	1.024	1.102	26.000	28.000

