

**Damper diode**

**BY328**

**FEATURES**

- Glass passivated
- High maximum operating temperature
- Low leakage current
- Excellent stability
- Available in ammo-pack
- Also available with preformed leads for easy insertion.

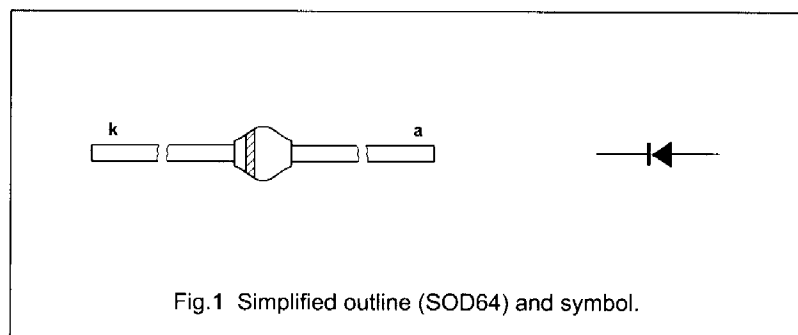
**APPLICATIONS**

- Damper diode in high frequency horizontal deflection circuits up to 38 kHz.

**DESCRIPTION**

Rugged glass package, using a high temperature alloyed construction.

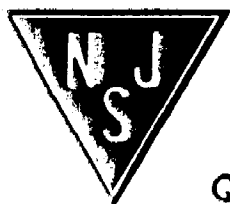
This package is hermetically sealed and fatigue free as coefficients of expansion of all used parts are matched.



**LIMITING VALUES**

In accordance with the Absolute Maximum Rating System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
$V_{RSM}$	non-repetitive peak reverse voltage		-	1500	V
$V_{RRM}$	repetitive peak reverse voltage		-	1500	V
$V_R$	continuous reverse voltage		-	1400	V
$I_{FWM}$	working peak forward current	$T_{tp} = 55^\circ\text{C}$ ; lead length = 10 mm see Fig.2	-	6.0	A
		$T_{amb} = 55^\circ\text{C}$ ; PCB mounting (see Fig.5); see Fig.2	-	4.7	A
		$T_{amb} = 55^\circ\text{C}$ ; PCB mounting (see Fig.4); see Fig 2	-	3.0	A
$I_{FRM}$	repetitive peak forward current		-	10	A
$I_{FSM}$	non-repetitive peak forward current	$t = 10$ ms half sinewave; $T_j = T_{j\text{max}}$ prior to surge; $V_R = V_{RRM\text{max}}$	-	60	A
$T_{stg}$	storage temperature		-65	+175	$^\circ\text{C}$
$T_j$	junction temperature		-65	+150	$^\circ\text{C}$



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**ELECTRICAL CHARACTERISTICS**

$T_j = 25\text{ }^\circ\text{C}$ ; unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MAX.	UNIT
$V_F$	forward voltage	$I_F = 5\text{ A}$ ; $T_j = T_{j\text{ max}}$ ; see Fig.3	1.35	V
		$I_F = 5\text{ A}$ ; see Fig.3	1.45	V
$I_R$	reverse current	$V_R = V_{R\text{ max}}$ ; $T_j = 150\text{ }^\circ\text{C}$	150	$\mu\text{A}$
$t_{rr}$	reverse recovery time	when switched from $I_F = 0.5\text{ A}$ to $I_R = 1\text{ A}$ ; measured at $I_R = 0.25\text{ A}$ ; see Fig.6	500	ns
$t_{fr}$	forward recovery time	when switched to $I_F = 5\text{ A}$ in 50 ns; $T_j = T_{j\text{ max}}$ ; see Fig.7	500	ns

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$R_{th\ j\text{-tp}}$	thermal resistance from junction to tie-point	lead length = 10 mm	25	K/W
$R_{th\ j\text{-a}}$	thermal resistance from junction to ambient	note 1	75	K/W
		mounted as shown in Fig.5	40	K/W