

BY228

Damper diode

FEATURES

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

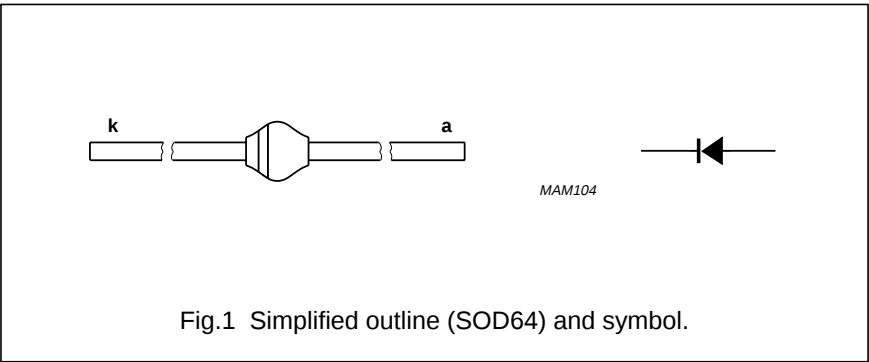
APPLICATIONS

- Damper diode in high frequency horizontal deflection circuits up to 16 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		–	1650	V
V_{RRM}	repetitive peak reverse voltage		–	1650	V
V_R	continuous reverse voltage		–	1500	V
I_{FWM}	working peak forward current	$T_{amb} = 75\text{ }^{\circ}\text{C}$; PCB mounting (see Fig.4); see Fig.2	–	5	A
I_{FRM}	repetitive peak forward current		–	10	A
I_{FSM}	non-repetitive peak forward current	$t = 10\text{ ms}$ half sinewave; $T_j = T_{j\text{ max}}$ prior to surge; $V_R = V_{RRM\text{ max}}$	–	50	A
T_{stg}	storage temperature		–65	+175	$^{\circ}\text{C}$
T_j	junction temperature		–65	+150	$^{\circ}\text{C}$

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	1.4	V
		$I_F = 5\text{ A}$; see Fig.3	1.5	V
I_R	reverse current	$V_R = V_{R\text{ max}}$; $T_j = 150\text{ }^{\circ}\text{C}$	150	μA
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	1	μs
t_{fr}	forward recovery time	when switched to $I_F = 5\text{ A}$ in 50 ns; $T_j = T_{j\text{ max}}$; Fig.7	1	μs