New Jersey Semi-Conductor Products, Inc.

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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 38 kHz.

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 °C; lead length = 10 mm see Fig.2		6.0	A
		T _{amb} = 55 °C; PCB mounting (see Fig.5); see Fig.2		4.7	А
		T _{amb} = 55 °C; PCB mounting (see Fig.4); see Fig 2	_	3.0	А
IFRM	repetitive peak forward current		_	10	A
I _{FSM}	non-repetitive peak forward current	t = 10 ms half sinewave; $T_j = T_{j max}$ prior to surge; $V_R = V_{RRMmax}$	_	60	A
T _{stg}	storage temperature		-65	+175	°C
Tj	junction temperature		-65	+150	°C

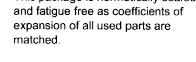
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Quality Semi-Conductors

DESCRIPTION

Rugged glass package, using a high temperature alloyed construction.

This package is hermetically sealed



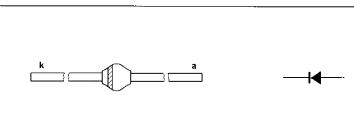


Fig.1 Simplified outline (SOD64) and symbol.

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Damper diode

ELECTRICAL CHARACTERISTICS

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

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SYMBOL	PARAMETER	CONDITIONS	MAX.	UNIT
VF	forward voltage	I _F = 5 A; T _j = T _{j max} ; see Fig.3	1.35	V
		I _F = 5 A; see Fig.3	1.45	V
IR	reverse current	V _R = V _{Rmax} ; T _j = 150 °C	150	μA
t _{rr}	reverse recovery time	when switched from $I_F = 0.5 A$ to $I_R = 1 A$; measured at $I_R = 0.25 A$; see Fig.6	500	ns
t _{fr}	forward recovery time	when switched to $I_F = 5 A$ in 50 ns; T _j = T _{j max} ; see Fig.7	500	ns

THERMAL CHARACTERISTICS

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