

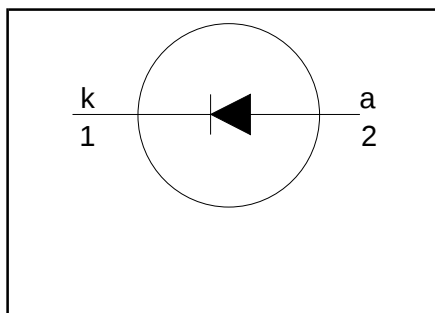
Damper diode fast, high-voltage

BY459

FEATURES

- Low forward volt drop
- Fast switching
- Soft recovery characteristic
- High thermal cycling performance
- Low thermal resistance

SYMBOL



QUICK REFERENCE DATA

$V_R = 1500\text{ V}$
$V_F \leq 1.2\text{ V}$
$I_{F(\text{peak})} = 12\text{ A (f = 48 kHz)}$
$I_{F(\text{peak})} = 10\text{ A (f = 82 kHz)}$
$I_{FSM} \leq 100\text{ A}$
$t_{tr} \leq 350\text{ ns}$

GENERAL DESCRIPTION

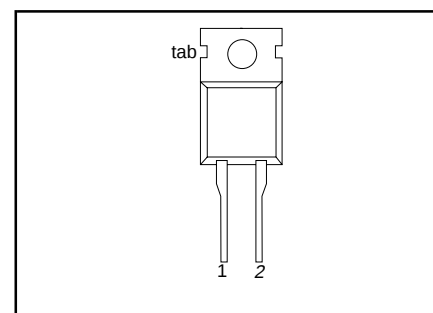
Glass-passivated double diffused rectifier diode featuring fast forward recovery and low forward recovery voltage. The device is intended for use in HDTV receivers and multi-sync monitor horizontal deflection circuits.

The BY459 series is supplied in the conventional leaded SOD59 (TO220AC) package.

PINNING

PIN	DESCRIPTION
1	cathode
2	anode
tab	cathode

SOD59 (TO220AC)



LIMITING VALUES

Limiting values in accordance with the Absolute Maximum System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V_{RSM}	Peak non-repetitive reverse voltage		-	1500	V
V_{RRM}	Peak repetitive reverse voltage		-	1500	V
V_{RWM}	Crest working reverse voltage		-	1300	V
$I_{F(\text{peak})}$	Peak working forward current	f = 48 kHz; f = 82 kHz;	-	12	A
I_{FRM}	Peak repetitive forward current	t = 100 μ s	-	100	A
$I_{F(\text{RMS})}$	RMS forward current		-	30	A
I_{FSM}	Peak non-repetitive forward current	t = 10 ms t = 8.3 ms sinusoidal; $T_j = 150\text{ }^\circ\text{C}$ prior to surge; with reapplied $V_{RWM(\text{max})}$	-	100 110	A A
T_{stg}	Storage temperature		-40	150	$^\circ\text{C}$
T_j	Operating junction temperature		-	150	$^\circ\text{C}$