

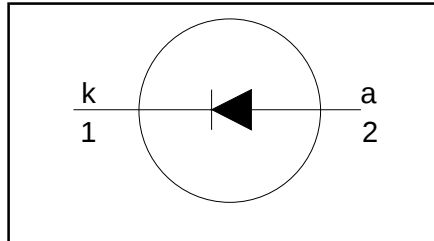
Rectifier diodes fast, soft-recovery

BY329F, BY329X series

FEATURES

- Low forward volt drop
- Fast switching
- Soft recovery characteristic
- High thermal cycling performance
- Isolated mounting tab

SYMBOL



QUICK REFERENCE DATA

$$V_R = 800 \text{ V} / 1000 \text{ V} / 1200 \text{ V}$$

$$I_{F(AV)} = 8 \text{ A}$$

$$I_{FSM} \leq 65 \text{ A}$$

$$t_{rr} \leq 145 \text{ ns}$$

GENERAL DESCRIPTION

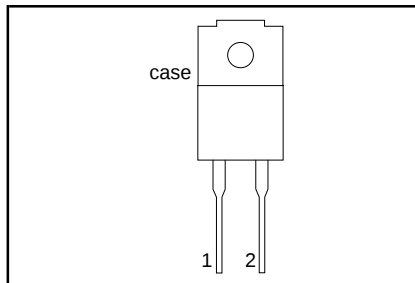
Glass-passivated double diffused rectifier diodes featuring low forward voltage drop, fast reverse recovery and soft recovery characteristic. The devices are intended for use in TV receivers, monitors and switched mode power supplies.

The BY329F series is supplied in the conventional leaded SOD100 package.
The BY329X series is supplied in the conventional leaded SOD113 package.

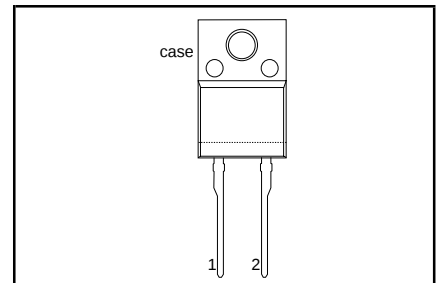
PINNING

PIN	DESCRIPTION
1	cathode
2	anode
tab	isolated

SOD100



SOD113



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	BY329F / BY329X	-	-800 800	-1000 1000	-1200 1200	V
V_{RRM}	Peak repetitive reverse voltage		-	800	1000	1200	V
V_{RWM}	Crest working reverse voltage		-	600	800	1000	V
$I_{F(AV)}$	Average forward current ¹		-	8			A
		square wave; $\delta = 0.5$; $T_{hs} \leq 83^\circ\text{C}$	-	7			A
		sinusoidal; $a = 1.57$; $T_{hs} \leq 90^\circ\text{C}$	-	11			A
$I_{F(RMS)}$	RMS forward current	$t = 25 \mu\text{s}$; $\delta = 0.5$; $T_{hs} \leq 83^\circ\text{C}$	-	16			A
I_{FRM}	Peak repetitive forward current		-	65			A
I_{FSM}	Peak non-repetitive forward current.		-	71			A
		$t = 10 \text{ ms}$ $t = 8.3 \text{ ms}$ sinusoidal; $T_j = 150^\circ\text{C}$ prior to surge; with reapplied	-	28			A
I^2t	I^2t for fusing	$V_{RWM(max)}$ $t = 10 \text{ ms}$	-	150			A ² s
T_{stg}	Storage temperature		-40	150			°C
T_j	Operating junction temperature		-	150			°C

1. Neglecting switching and reverse current losses.