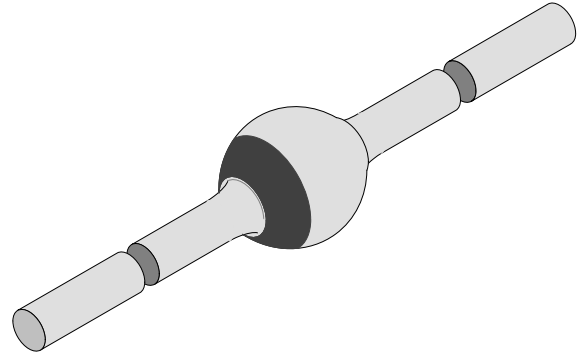


## Features

- ✧ Glass passivated junction
- ✧ Hermetically sealed package
- ✧ Low reverse current
- ✧ Soft recovery characteristics

## Applications

Very fast rectifiers and switches



## Absolute Maximum Ratings

$T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage =Repetitive peak reverse voltage		BYT56A	$V_R=V_{RRM}$	50	V
		BYT56B	$V_R=V_{RRM}$	100	V
		BYT56D	$V_R=V_{RRM}$	200	V
		BYT56G	$V_R=V_{RRM}$	400	V
		BYT56J	$V_R=V_{RRM}$	600	V
		BYT56K	$V_R=V_{RRM}$	800	V
		BYT56M	$V_R=V_{RRM}$	1000	V
Peak forward surge current	$t_p=10\text{ms}$ , half sinewave		$I_{FSM}$	80	A
Average forward current	on PC board		$I_{FAV}$	1.5	A
	$l=10\text{mm}$ , $T_L=25^\circ\text{C}$		$I_{FAV}$	3	A
Junction and storage temperature range			$T_j=T_{stg}$	-65...+175	$^\circ\text{C}$

## Maximum Thermal Resistance

$T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	$l=10\text{mm}$ , $T_L=\text{constant}$	$R_{thJA}$	25	K/W
	on PC board with spacing 37.5mm	$R_{thJA}$	70	K/W

## Electrical Characteristics

$T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=3\text{A}$		$V_F$			1.4	V
Reverse current	$V_R=V_{RRM}$		$I_R$			5	$\mu\text{A}$
	$V_R=V_{RRM}$ , $T_j=150^\circ\text{C}$		$I_R$			150	$\mu\text{A}$
Reverse recovery time	$I_F=0.5\text{A}$ , $I_R=1\text{A}$ , $i_R=0.25\text{A}$		$t_{rr}$			100	ns

## Characteristics ( $T_j = 25^\circ\text{C}$ unless otherwise specified)

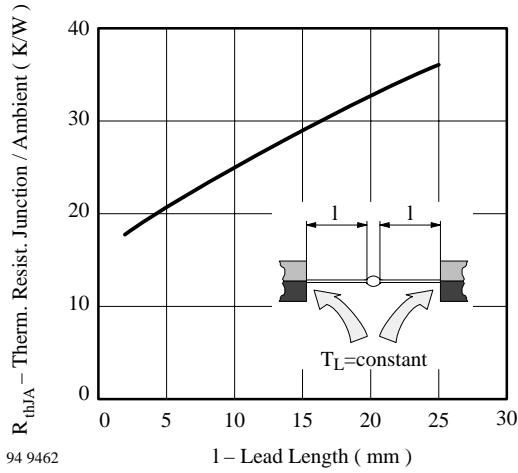


Figure 1. Max. Thermal Resistance vs. Lead Length

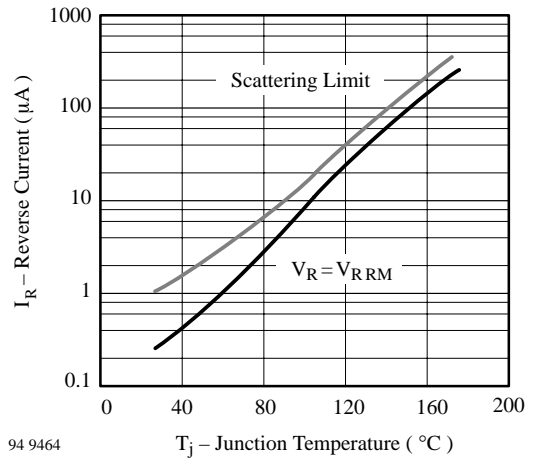


Figure 4. Reverse Current vs. Junction Temperature

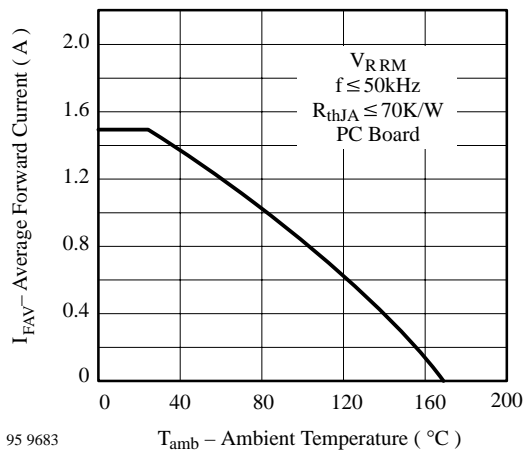


Figure 2. Max. Average Forward Current vs. Ambient Temperature

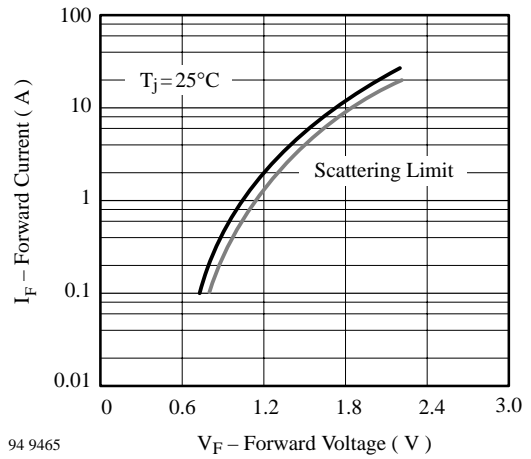


Figure 5. Forward Current vs. Forward Voltage

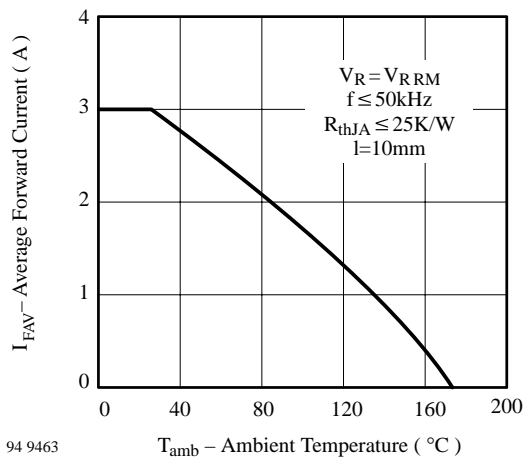


Figure 3. Max. Average Forward Current vs. Ambient Temperature

**Dimensions in mm**

Sintered Glass Case  
SOD 64  
Weight max. 1.0 g

