

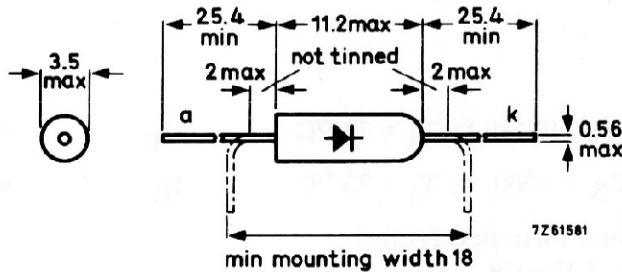
SILICON HIGH VOLTAGE DIODE

Diode in a plastic envelope intended for use as V_{g2} supply in colour television receivers.

QUICK REFERENCE DATA			
Crest working reverse voltage	V_{RWM}	max.	1500 V
Repetitive peak reverse voltage	V_{RRM}	max.	1800 V
Average forward current	I_{FAV}	max.	2.0 mA
Repetitive peak forward current	I_{FRM}	max.	100 mA
Junction temperature	T_j	max.	75 °C
Recovered charge when switched from $I_F = 10\text{ mA}$ to $V_R = 2\text{ V}$ with $-\frac{dI}{dt} = 5\text{ mA}/\mu\text{s}$			
	Q_S	typ.	1 nC

MECHANICAL DATA www.datasheetcatalog.com

Dimensions in mm



The envelope fulfils the accelerated damp heat test described in I.E.C. publication 68-2 (test D, severity IV, 6 cycles).

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

Voltages

Crest working reverse voltage	V_{RWM}	max.	1500 V
Repetitive peak reverse voltage	V_{RRM}	max.	1800 V
Non repetitive peak reverse voltage ($t \leq 10$ ms)	V_{RSM}	max.	1800 V

Currents

Average forward current (averaged over any 20 ms period)	I_{FAV}	max.	2.0 mA
Repetitive peak forward current	I_{FRM}	max.	100 mA
Non repetitive peak forward current ($t \leq 10$ ms)	I_{FSM}	max.	1000 mA

Temperatures

Storage temperature	T_{stg}	-65 to +100 °C
Junction temperature	T_j	max. 75 °C

THERMAL RESISTANCE

From junction to ambient in free air	$R_{th j-a}$	=	175 °C/W
--------------------------------------	--------------	---	----------

CHARACTERISTICS

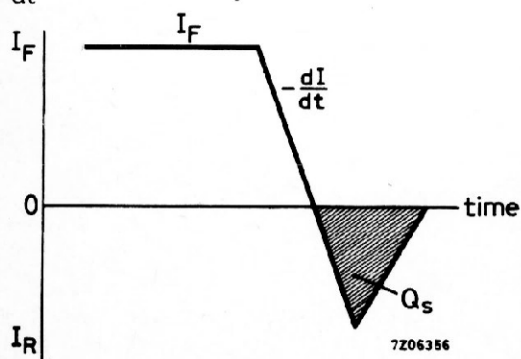
<u>Forward voltage</u> at $I_F = 100$ mA; $T_j = 75$ °C	V_F	<	5 V
<u>Reverse current</u> at $V_R = 1500$ V; $T_j = 75$ °C	I_R	<	10 μ A

Recovered charge when switched from

$I_F = 10$ mA to $V_R = 2$ V with

$-\frac{dI}{dt} = 5$ mA/ μ s; $T_j = 25$ °C

Q_S typ. 1 nC

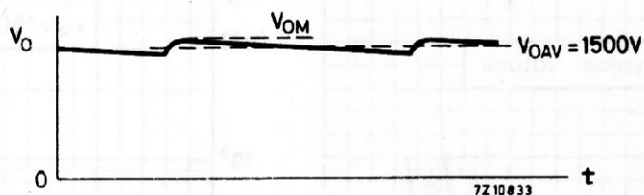
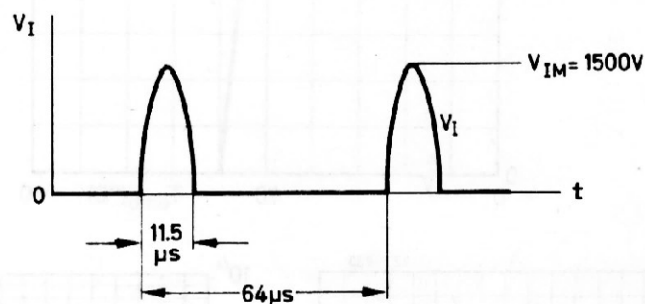
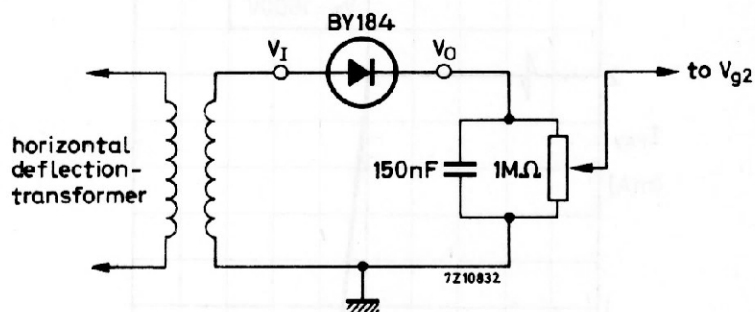


www.datasheetcatalog.com

APPLICATION INFORMATION

Basic circuit for V_{g2} supply in colour television receivers.

Stable continuous operation is ensured at an ambient temperature up to 70°C



www.datasheetcatalog.com

