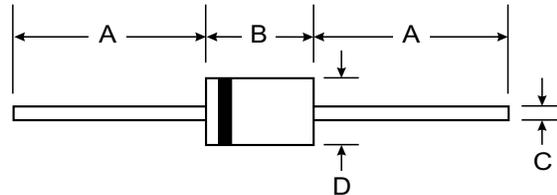


### Features

- Integrated protection ring against static discharge
- Very low forward voltage
- Lead (Pb)-free component
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

### Mechanical Data

- **Case:** DO35 Glass case
- **Weight:** approx. 125 mg
- **Cathode Band Color:** black
- **Packaging Codes/Options:**  
 TR/10 k per 13" reel (52 mm tape), 50 k/box  
 TAP/10 k per Ammopack (52 mm tape), 50 k/box

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit		
Reverse voltage		$V_R$	30	V		
Peak forward surge current	$t_p \leq 10 \text{ ms}$	$I_{FSM}$	5	A		
Repetitive peak forward current	$t_p \leq 1 \text{ s}$	$I_{FRM}$	300	mA		
Forward continuous current		$I_F$	200	mA		
Average forward current	PCB mounting, $l = 4 \text{ mm}$ ; $V_{RWM} = 25 \text{ V}$ , $T_{amb} = 50^\circ\text{C}$	$I_{FAV}$	200	mA		
Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	$I_F = 0.1 \text{ mA}$	$V_F$			240	mV
	$I_F = 1 \text{ mA}$	$V_F$			320	mV
	$I_F = 10 \text{ mA}$	$V_F$			400	mV
	$I_F = 30 \text{ mA}$	$V_F$			500	mV
	$I_F = 100 \text{ mA}$	$V_F$			800	mV
Reverse current	$V_R = 25 \text{ V}$	$I_R$			2	$\mu\text{A}$
Diode capacitance	$V_R = 1 \text{ V}$ , $f = 1 \text{ MHz}$	$C_D$			10	pF
Reverse Recovery Time	$I_F = 10 \text{ mA}$ to $I_R = 10 \text{ mA}$ to $i_R = 1 \text{ mA}$	$t_{rr}$			5	ns

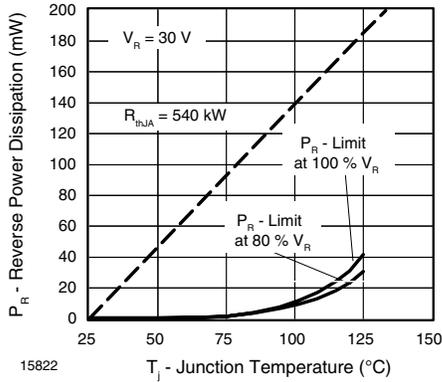


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

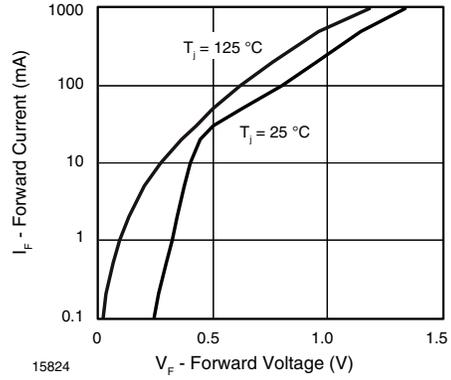


Figure 3. Forward Current vs. Forward Voltage

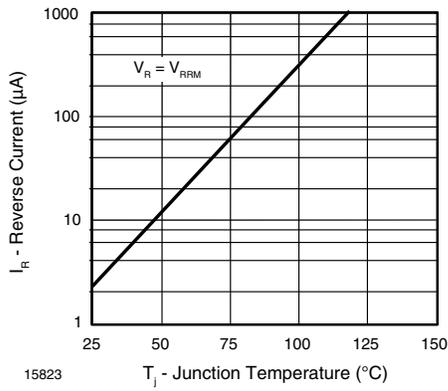


Figure 2. Reverse Current vs. Junction Temperature

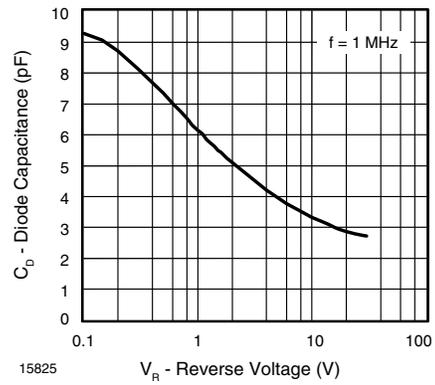


Figure 4. Diode Capacitance vs. Reverse Voltage