

SURFACE MOUNT SMALL SIGNAL SCHOTTKY DIODES

Features

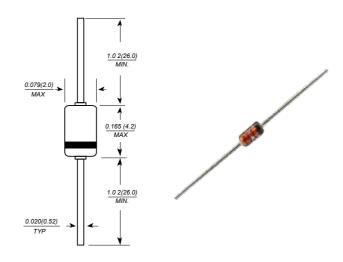
- Small foot print, surface mountable
- Very low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability

Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter			Symbol		Value		Unit
Repetitive Peak Reverse Voltage			V _{RRM}		80		V
Forward Continuous Current* $T_a = 70 \degree C$			I _F		500		mA
$\begin{array}{llllllllllllllllllllllllllllllllllll$			I _{FRM}		3		А
Surge non Repetitive Forward Current* $t_p \leq 10ms$			I _{FSM}		10		
Storage and Junction Temperature Range T _{stg} T _j			T _{stg}		- 65 to 150		
			Tj		- 65 to 125		
Maximum Lead Temperature for Soldering during 10s at 4mm from Case			TL		230		
Symbol		Test Conditions		Min.	Тур.	Max.	Unit
I _R * *	$T_j = 25^{\circ}C$ $V_R = 80V$					200	μA
V _F * *	$T_j = 25^{\circ}C$ $I_F = 10mA$					0.32	V
	$T_j = 25^{\circ}C$ $I_F = 100mA$					0.42	
	T _j = 25°C	$I_F = 1A$				1	
Symbol	Symbol Test Conditions			Min.	Тур.	Max.	Unit
С	T _j = 25°C	f = 1MHz	$V_R = 0V$		120		pF
			V _R = 5V		35		



Figure 1. Forward current versus forward voltage at low level (typical values).

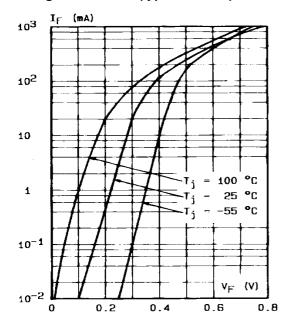


Figure 2. Forward current versus forward voltage at high level (typical values).

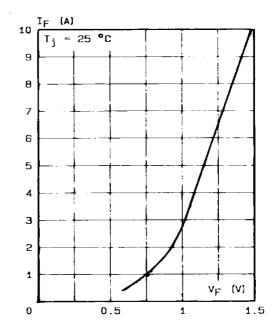


Figure 3. Reverse current versus junction temperature.

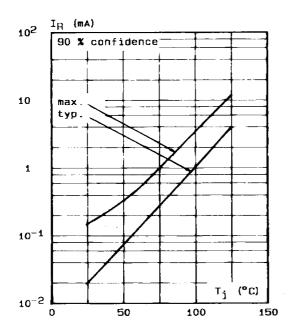


Figure 4. Reverse current versus $V_{\mbox{\scriptsize RRM}}$ in per cent.

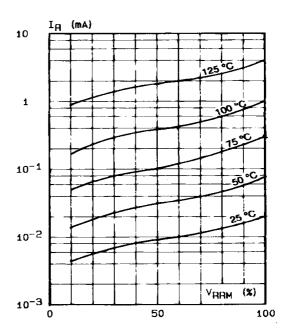




Figure 5. Capacitance C versus reverse applied voltage V_R (typical values).

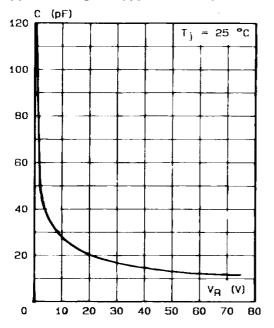


Figure 6. Surge non repetitive forward current for a rectangular pulse with t \leq 10 ms.

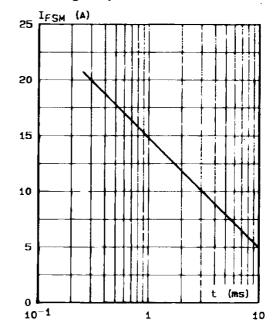


Figure 7. Surge non repetitive forward current versus number of cycles.

