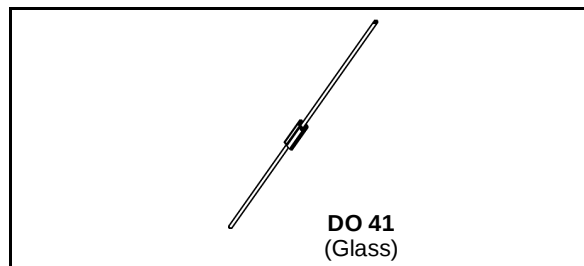


**SMALL SIGNAL SCHOTTKY DIODE****DESCRIPTION**

General purpose metal to silicon diode featuring very low turn-on voltage and fast switching.

This device has integrated protection against excessive voltage such as electrostatic discharges.

**ABSOLUTE RATINGS** (limiting values)

Symbol	Parameter		Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage		80	V
I_F	Forward Continuous Current*	$T_a = 70^\circ\text{C}$	500	mA
I_{FRM}	Repetitive Peak Forward Current*	$t_p = 1\text{s}$ $\delta \leq 0.5$	3	A
I_{FSM}	Surge non Repetitive Forward Current*	$t_p \leq 10\text{ms}$	10	A
T_{stg} T_j	Storage and Junction Temperature Range		- 65 to 150 - 65 to 125	$^\circ\text{C}$ $^\circ\text{C}$
T_L	Maximum Lead Temperature for Soldering during 10s at 4mm from Case		230	$^\circ\text{C}$

THERMAL RESISTANCE

Symbol	Test Conditions	Value	Unit
$R_{th(j-a)}$	Junction-ambient*	110	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS**STATIC CHARACTERISTICS**

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
I_R^{**}	$T_j = 25^\circ\text{C}$	$V_R = 80\text{V}$			200	μA
V_F^{**}	$T_j = 25^\circ\text{C}$	$I_F = 10\text{mA}$			0.32	V
	$T_j = 25^\circ\text{C}$	$I_F = 100\text{mA}$			0.42	
	$T_j = 25^\circ\text{C}$	$I_F = 1\text{A}$			1	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
C	$T_j = 25^\circ\text{C}$	$f = 1\text{MHz}$		120		pF
		$V_R = 0\text{V}$		35		

* On infinite heatsink with 4mm lead length

** Pulse test: $t_p \leq 300\mu\text{s}$ $\delta < 2\%$.

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

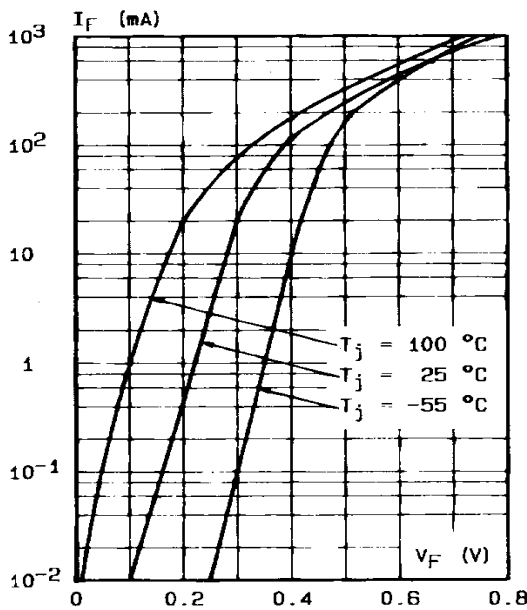


Figure 2. Forward current versus forward voltage at high level (typical values).

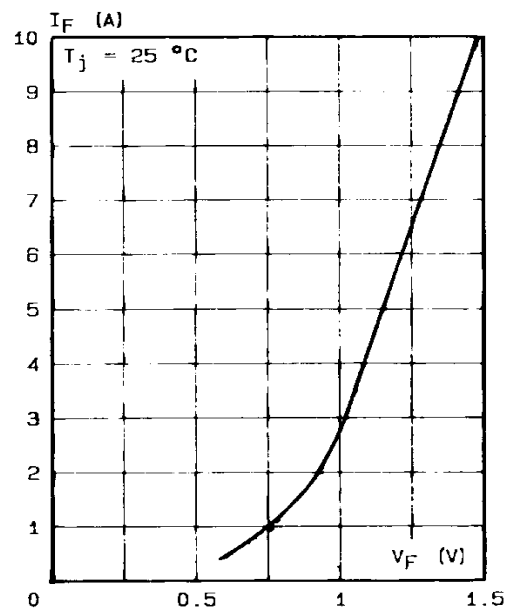


Figure 3. Reverse current versus junction temperature.

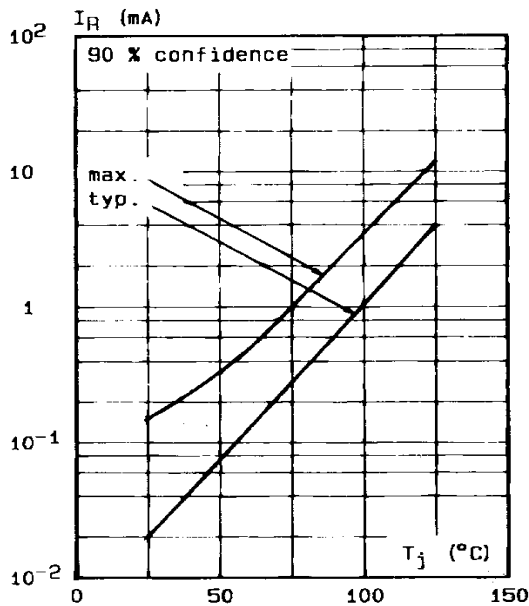


Figure 4. Reverse current versus V_{RRM} in per cent.

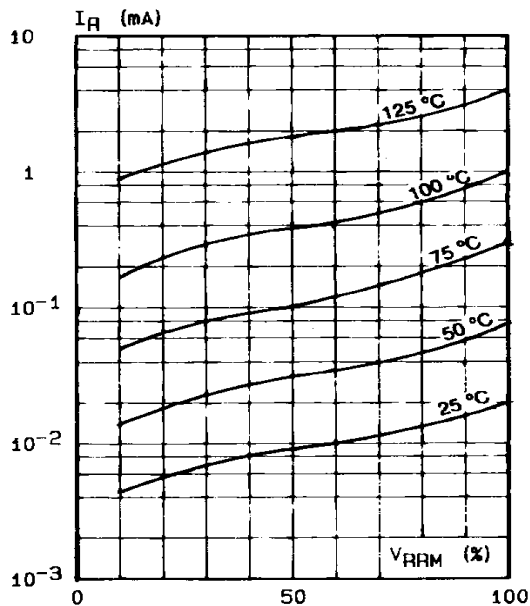


Figure 5. Capacitance C versus reverse applied voltage V_R (typical values).

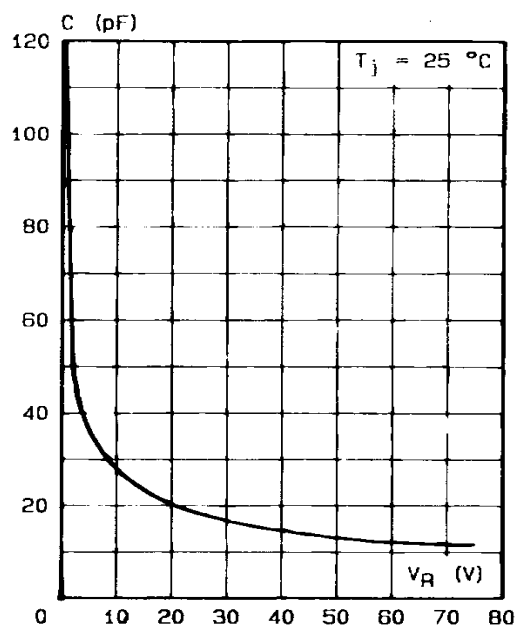


Figure 6. Surge non repetitive forward current for a rectangular pulse with $t \leq 10\text{ ms}$.

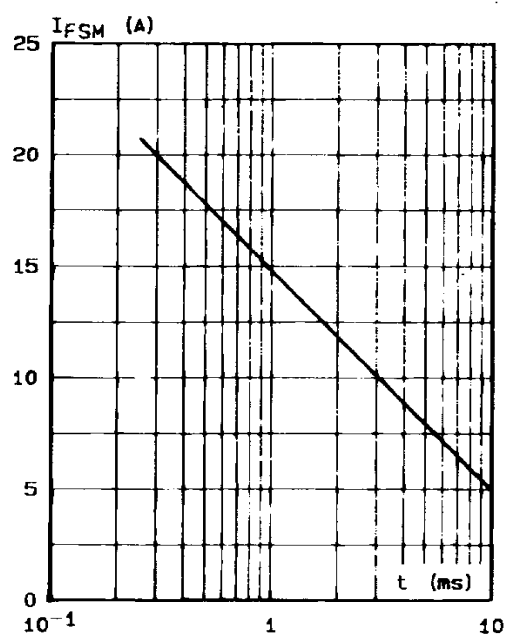
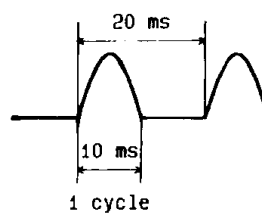
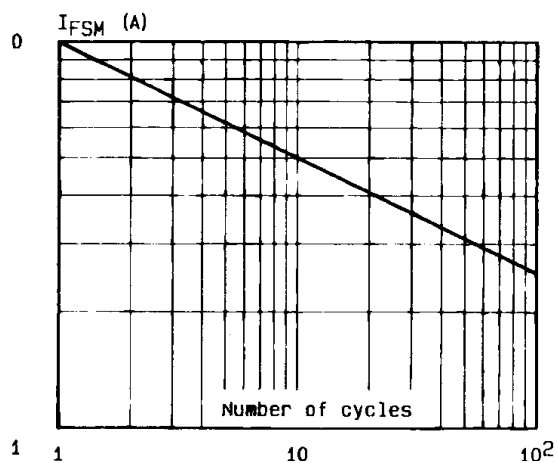
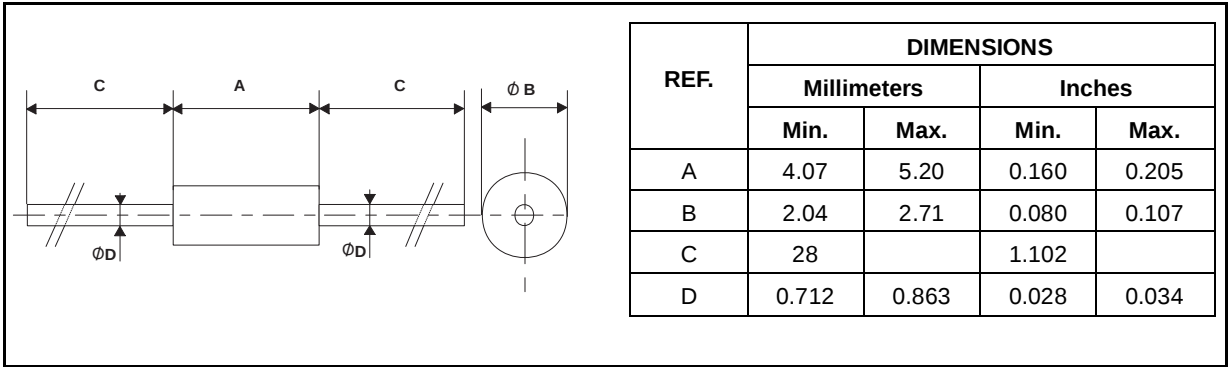


Figure 7. Surge non repetitive forward current versus number of cycles.



PACKAGE MECHANICAL DATA

DO 41 Glass



Cooling method : by convection and conduction
Marking: clear, ring at cathode end.
Weight: 0.34g

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