# **ELECTRICAL CHARACTERISTICS**

STATIC CHARACTERISTICS

Symbol		Min.	Тур.	Max.	Unit	
V <sub>BR</sub>	Tj = 25 °C	I <sub>R</sub> = 100 μA	100			V
V <sub>F</sub> *	Tj = 25 °C	I <sub>F</sub> = 0.1 mA			0.25	V
	Tj = 25 °C	I <sub>F</sub> = 10 mA			0.45	
	Tj = 25 °C	I <sub>F</sub> = 250 mA			1	
I <sub>R</sub> **	Tj = 25 °C	V <sub>R</sub> = 1.5 V			0.5	μA
	Tj = 60 °C				5	
	Tj = 25 °C	V <sub>R</sub> = 10 V			0.8	
	Tj = 60 °C				7.5	
	Tj = 25 °C	V <sub>R</sub> = 50 V			2	
	Tj = 60 °C				15	
	Tj = 25 °C	V <sub>R</sub> = 75 V			5	
	Tj = 60 °C				20	

Pulse test : \* tp = 380µs  $\delta$  < 2% \*\* tp = 5 ms,  $\delta$  < 2%

# DYNAMIC CHARACTERISTICS

Symbol	Test conditions			Min.	Тур.	Max.	Unit
С	Tj = 25 °C	$V_R = 0 V$	F = 1MHz		10		pF
	Tj = 25 °C	$V_R = 1 V$			6		

#### **BAR46 / BAR46AFILM**

**Fig. 1:** Forward current versus forward voltage at different temperatures (typical values).

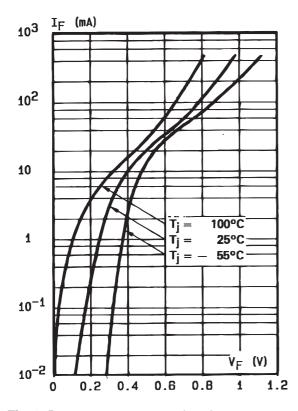


Fig. 3: Reverse current versus junction temperature (typical values).

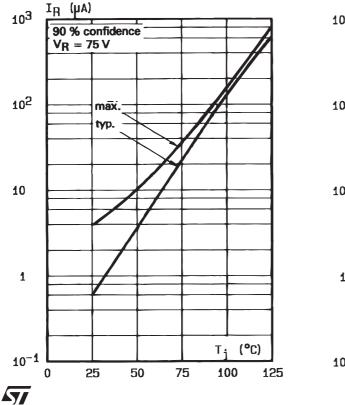


Fig. 2: Forward current versus forward voltage (typical values).

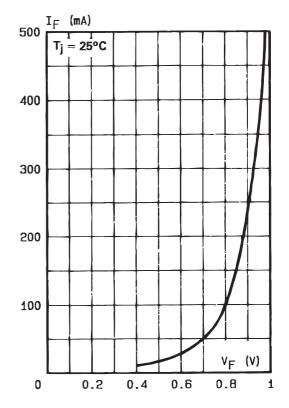
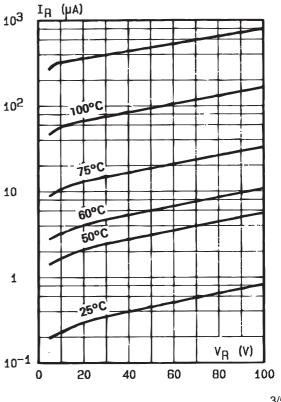
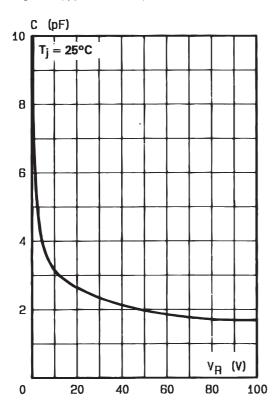


Fig. 4: Reverse current versus continuous reverse voltage (typical values).



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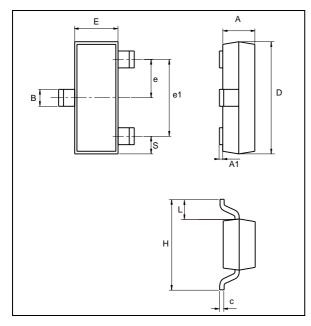
Fig. 5: Capacitance C versus reverse applied voltage  $V_R$  (typical values).



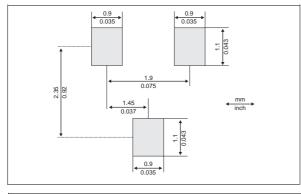
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### PACKAGE MECHANICAL DATA

SOT-23 (Plastic)



FOOT PRINT DIMENSIONS (Millimeter)



	DIMENSIONS					
REF.	Millim	neters	Inches			
	Min.	Max.	Min.	Max.		
А	0.89	1.4	0.035	0.055		
A1	0	0.1	0	0.004		
В	0.3	0.51	0.012	0.02		
С	0.085	0.18	0.003	0.007		
D	2.75	3.04	0.108	0.12		
е	0.85	1.05	0.033	0.041		
e1	1.7	2.1	0.067	0.083		
E	1.2	1.6	0.047	0.063		
Н	2.1	2.75	0.083	0.108		
L	0.6 typ.		0.024 typ.			
S	S 0.35		0.014	0.026		

Ordering type	Marking	Package	Weight	Base qty	Delivery mode
BAR46	S46	SOT-23	0.01g	3000	Tape & reel
BAR46AFILM	A46	SOT-23	0.01g	3000	Tape & reel

Epoxy meets UL94,V0

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