ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Typ.	Max.	Unit
$V_{(BR)}$	I_R = 10µA		BAT47	20			V
	I_R = 25µA		BAT48	40			
V_F*	T_j = 25°C I_F = 0.1mA		All Types			0.25	V
	T_j = 25°C I_F = 1mA					0.3	
	T_j = 25°C I_F = 10mA					0.4	
	T_j = 25°C I_F = 30mA		BAT47			0.5	
	T_j = 25°C I_F = 150mA					0.8	
	T_j = 25°C I_F = 300mA					1	
	T_j = 25°C I_F = 50mA		BAT48			0.5	
	T_j = 25°C I_F = 200mA					0.75	
	T_j = 25°C I_F = 500mA					0.9	
I_R*	T_j = 25°C	V_R = 1.5V	All Types			1	µA
	T_j = 60°C					10	
	T_j = 25°C	V_R = 10V	BAT47			4	
	T_j = 60°C					20	
	T_j = 25°C	V_R = 20V				10	
	T_j = 60°C					30	
	T_j = 25°C	V_R = 10V	BAT48			2	
	T_j = 60°C					15	
	T_j = 25°C	V_R = 20V				5	
	T_j = 60°C					25	
	T_j = 25°C	V_R = 40V				25	
	T_j = 60°C					50	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
C	T_j = 25°C V_R = 0V	f = 1MHz		20		pF
	T_j = 25°C V_R = 1V			12		

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

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

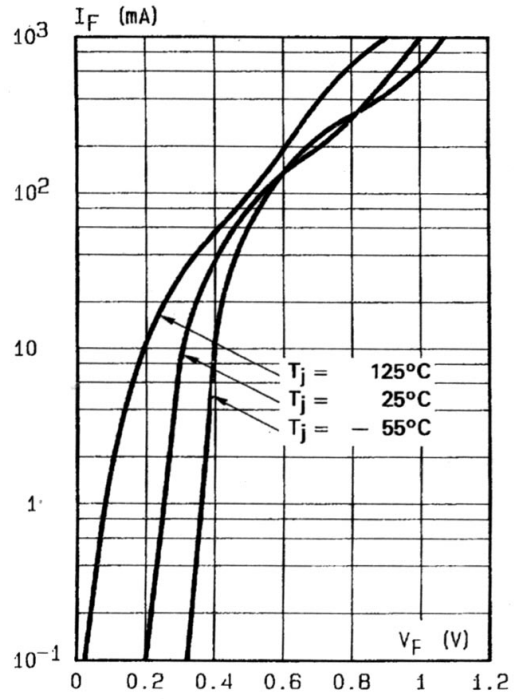


Fig. 2: Forward current versus forward voltage (typical values).

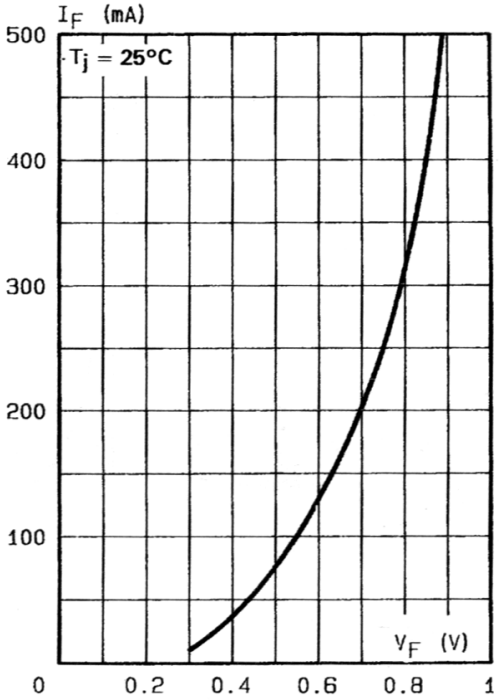


Fig. 3: Reverse current versus junction temperature.

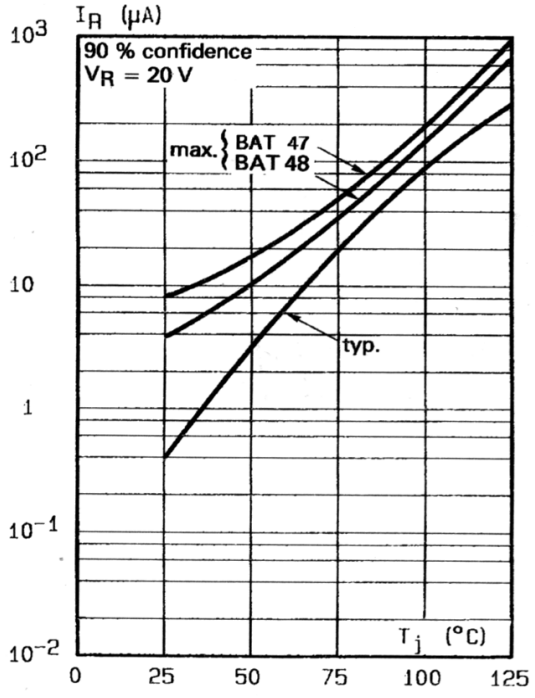


Fig. 4: Reverse current versus continuous reverse voltage (typical values).

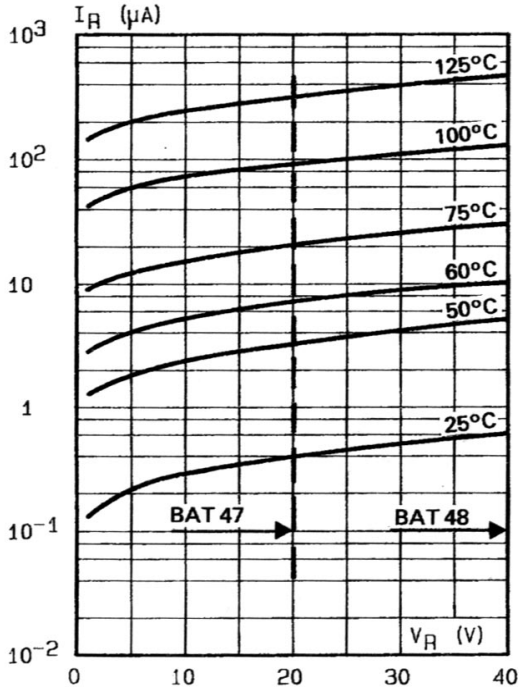
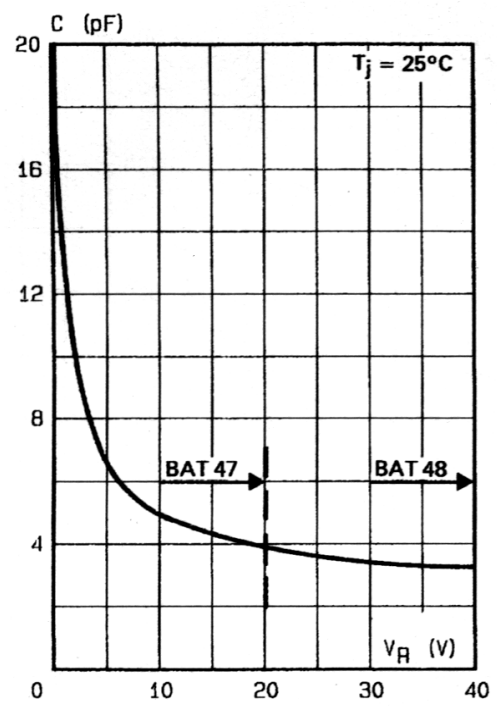
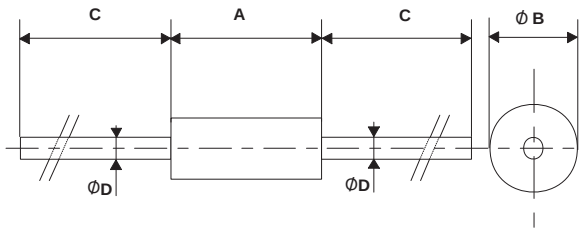


Fig. 5: Capacitance C versus reverse applied voltage V_R (typical values).



PACKAGE MECHANICAL DATA

DO-35



REF.	DIMENSIONS			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.05	4.50	0.120	0.177
B	1.53	2.00	0.060	0.079
C	28.00		1.102	
D	0.458	0.558	0.018	0.022

Cooling method: by convection and conduction.
Marking: clear, ring at cathode end.
Weight: 0.015g