ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Тур.	Max.	Unit
V _(BR)	I _R = 10μA		BAT47	20			V
	I _R = 25μA		BAT48	40			
V _F *	$T_j = 25^{\circ}C$ $I_F = 0.1mA$	-	All Types			0.25	- V
	$T_j = 25^{\circ}C$ $I_F = 1mA$					0.3	
	$T_j = 25^{\circ}C$ $I_F = 10mA$					0.4	
	$T_j = 25^{\circ}C$ $I_F = 30mA$	-	BAT47			0.5	
	$T_j = 25^{\circ}C$ $I_F = 150mA$					0.8	
	$T_j = 25^{\circ}C$ $I_F = 300mA$					1	
	$T_j = 25^{\circ}C$ $I_F = 50mA$		BAT48			0.5	
	$T_j = 25^{\circ}C$ $I_F = 200mA$					0.75	
	$T_j = 25^{\circ}C$ $I_F = 500mA$					0.9	
I _R *	T _j = 25°C	V _R = 1.5V	All Types			1	μΑ
	$T_j = 60^{\circ}C$					10	
	T _j = 25°C	V _R = 10V	BAT47			4	
	$T_j = 60^{\circ}C$					20	
	T _j = 25°C	V _R = 20V				10	
	$T_j = 60^{\circ}C$					30	
	T _j = 25°C	V _R = 10V	BAT48			2	
	$T_j = 60^{\circ}C$					15	
	$T_j = 25^{\circ}C$	V _R = 20V				5	
	$T_j = 60^{\circ}C$					25	
	$T_j = 25^{\circ}C$	V _R = 40V				25	
	$T_j = 60^{\circ}C$					50	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Тур.	Max.	Unit
С	$T_j = 25^{\circ}C$ $V_R = 0V$	f = 1MHz		20		pF
	$T_j = 25^{\circ}C$ $V_R = 1V$			12		

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

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



Fig. 3: Reverse current versus junction temperature.



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



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





Fig. 5: Capacitance C versus reverse applied voltage V_{R} (typical values).

Max.

0.177

0.079

0.022

PACKAGE MECHANICAL DATA

DO-35



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

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