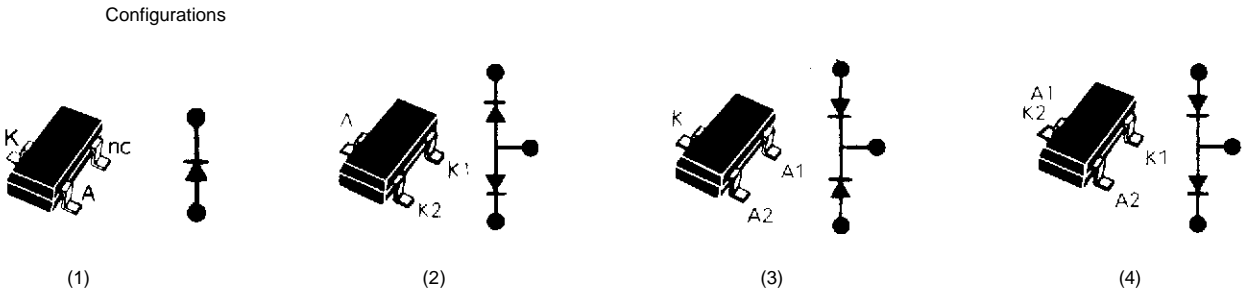


UHF AND ULTRA-FAST SWITCHING (TA=25°C)

Device	Config.	VRRM	IF	IR* @ VR		VF* @ IF		C @ VR F=1MHz		Dynamic parameters	Package
		(V)	(mA)	max (mA)	(V)	max (V)	(mA)	max (pF)	(V)		
<a href="#">1N5711</a>		70	15	0.2	50	0.41	1	2	0	$\tau < 100\text{ps} / 5\text{mA}$	DO35
<a href="#">1N6263</a>		60	15	0.2	50	0.41	1	2.2	0	$\tau < 100\text{ps} / 5\text{mA}$	GLASS
<a href="#">TMM6263</a>		60	15	0.2	50	0.41	1	2.2	0	$\tau < 100\text{ps} / 5\text{mA}$	MINIMELF GLASS
<a href="#">BAR18</a>	1	70	15	0.2	50	0.41	1	2	0	$\tau < 100\text{ps} @ 5\text{mA}$	SOT23
<a href="#">BAR42</a>	1	30	100	0.5	25	0.40	10	7#	1	$t_{rr} < 5\text{ns} @ 10\text{mA}$	
<a href="#">BAR43</a>	1	30	100	0.5	25	0.33	2	7#	1	$t_{rr} < 5\text{ns} @ 10\text{mA}$	
<a href="#">BAS70-06</a>	2	70	15	0.2	50	0.41	1	2	0	$\tau < 100\text{ps} / 5\text{mA}$	SOT23
<a href="#">BAR43A</a>	2	30	100	0.5	25	0.33	2	7#	1	$t_{rr} < 5\text{ns} @ 10\text{mA}$	
<a href="#">BAS70-05</a>	3	70	15	0.2	50	0.41	1	2	0	$\tau < 100\text{ps} / 5\text{mA}$	SOT23
<a href="#">BAR43C</a>	3	30	100	0.5	25	0.33	2	7#	1	$t_{rr} < 5\text{ns} @ 10\text{mA}$	
<a href="#">BAS70-04</a>	4	70	15	0.2	50	0.41	1	2	0	$\tau < 100\text{ps} / 5\text{mA}$	SOT23
<a href="#">BAR43S</a>	4	30	100	0.5	25	0.33	2	7#	1	$t_{rr} < 5\text{ns} @ 10\text{mA}$	

F: Mixer noise figure  
Qs : Stored charges (B-line)  
# : Typical value  
 $\tau$  : Minority carrier file time (Krakauer method)  
\* : Pulse test  $t_p \leq 300\mu\text{s}$ ,  $\delta < 2\%$



**GENERAL PURPOSE (TA=25°C)**

Device	V <sub>RRM</sub> (V)	I <sub>F</sub> (A)	I <sub>R</sub> * @ V <sub>R</sub>		V <sub>F</sub> * @ I <sub>F</sub>		C @ V <sub>R</sub> F=1MHz		Dynamic parameter	Package
			max (mA)	(V)	max (V)	(mA)	max (pF)	(V)		
<a href="#">BAT42</a>	30	200	0.5	25	0.40 0.65 1	10 50 200	7	1	t <sub>rr</sub> < 5ns / 10mA	DO35 GLASS
<a href="#">BAT43</a>	30	200	0.5	25	0.45 1	15 200	7	1	η < 80% / 45MHz	
<a href="#">BAT47</a>	20	350	4	10	0.25 0.4 1	0.1 10 300	12	1	t <sub>rr</sub> < 10ns / 10mA	
<a href="#">BAT48</a>	40	350	2	10	0.25 0.4 0.9	0.1 10 500	12	1	t <sub>rr</sub> < 10ns / 10mA	
<a href="#">BAT41</a>	100	100	0.1	50	0.45 1	1 200	2	1		
<a href="#">BAT46</a>	100	150	2	50	0.25 0.45 1	0.1 10 250	6	1		
<a href="#">BAT49</a>	80	500	200	80	0.32 0.42 1	10 100 1000	120	0		DO41 GLASS
<a href="#">BYV10-40</a>	40	1000	500	40	0.55 0.85	1000 3000	220	0		
<a href="#">BYV10-60</a>	60	1000	500	60	0.70 1	1000 3000	150	0		
<a href="#">TMMBAT42</a>	30	200	0.55	25	0.4 0.65 1	10 50 200	7	1	t <sub>rr</sub> < 5ns / 10mA	MINIMELF GLASS
<a href="#">TMMBAT43</a>	30	200	0.5	25	0.45 1	15 200	7	1	η > 80% / 45MHz	
<a href="#">TMMBAT48</a>	40	350	2	10	1 0.25 0.4	300 0.1 10	12	1	t <sub>rr</sub> < 10ns / 10mA	
<a href="#">TMMBAT41</a>	100	100	0.1	50	0.9 0.45 1	500 1 200	2	1		
<a href="#">TMMBAT46</a>	100	150	2	50	0.25 0.45 1	0.1 10 250	6	1		
<a href="#">TMMBAT49</a>	80	500	200	80	0.32 0.42 1	10 100 1000	120	0		MELF GLASS
<a href="#">TMBYV10-40</a>	40	1000	500	40	0.55 0.85	1000 3000	220	0		
<a href="#">TMBYV10-60</a>	60	1000	500	60	0.70	1000	150	0		

η : Detection efficiency

\* : Pulse test t<sub>p</sub> ≤ 300s, δ < 2%