



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

Device	Config.	V _{RRM} (V)	I _F (mA)	I _R * @ V _R		V _F * @ I _F		C @ V _R F=1MHz		Dynamic parameters	Package
				max (μA)	(V)	max (V)	(mA)	max (pF)	(V)		
1N5711 1N6263		70 60	15 15	0.2 0.2	50 50	0.41 0.41	1 1	2 2.2	0 0	τ < 100ps / 5mA τ < 100ps / 5mA	DO35
TMM6263		60	15	0.2	50	0.41	1	2.2	0	τ < 100ps / 5mA	MINIMELF
BAR18	1	70	15	0.2	50	0.41	1	2	0	τ < 100ps @ 5mA	SOT23
BAR42	1	30	100	0.5	25	0.40	10	7#	1	t _{rr} < 5ns @ 10mA	
BAR43	1	30	100	0.5	25	0.33	2	7#	1	t _{rr} < 5ns @ 10mA	
BAS70-06	2	70	15	0.2	50	0.41	1	2	0	τ < 100ps / 5mA	SOT23
BAR43A	2	30	100	0.5	25	0.33	2	7#	1	t _{rr} < 5ns @ 10mA	
BAS70-05	3	70	15	0.2	50	0.41	1	2	0	τ < 100ps / 5mA	SOT23
BAR43C	3	30	100	0.5	25	0.33	2	7#	1	t _{rr} < 5ns @ 10mA	
BAS70-04	4	70	15	0.2	50	0.41	1	2	0	τ < 100ps / 5mA	SOT23
BAR43S	4	30	100	0.5	25	0.33	2	7#	1	t _{rr} < 5ns @ 10mA	

F: Mixer noise figure

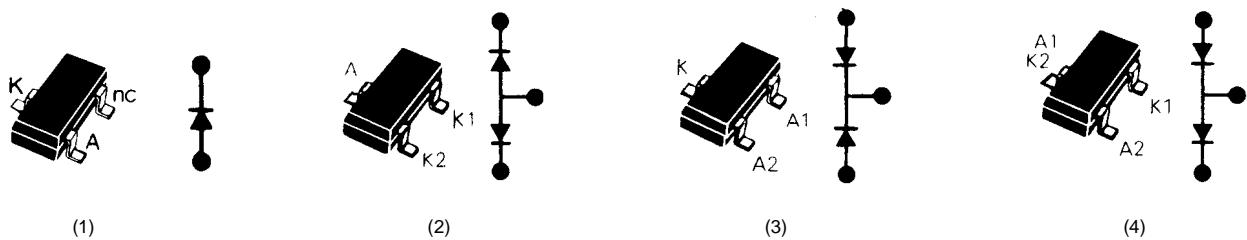
Qs : Stored charges (B-line)

: Typical value

τ : Minority carrier file time (Krakauer method)

* : Pulse test tp ≤ 300μs, δ < 2%

Configurations



GENERAL PURPOSE (TA=25°C)

Device	V _{RRM} (V)	I _F (mA)	I _R * @ V _R		V _F * @ I _F		C @ V _R F=1MHz		Dynamic parameter	Package
			max (μA)	(V)	max (V)	(mA)	typ (pF)	(V)		
BAT42	30	200	0.5	25	0.40 0.65 1	10 50 200	7	1	t _{rr} < 5ns / 10mA	DO35
BAT43	30	200	0.5	25	0.33 0.45 1	2 15 200	7	1	η < 80% / 45MHz	
BAT47	20	350	4	10	0.23 0.5 1	0.1 30 300	12	1	t _{rr} < 10ns / 10mA	
BAT48	40	350	2	10	0.23 0.5 1	0.1 50 500	12	1	t _{rr} < 10ns / 10mA	
BAT41	100	100	0.1	50	0.45 1	1 200	2	1		
BAT46	100	150	2	50	0.25 0.45 1	0.1 10 250	6	1		
BAT49	80	500	200	80	0.32 0.42 1	10 100 1000	35	5		DO41
BYV10-40	40	1000	500	40	0.55 0.85	1000 3000	220	0		
BYV10-60	60	1000	500	60	0.70 1	1000 3000	40	5		
TMMBAT42	30	200	0.55	25	0.4 0.65 1	10 50 200	7	1	t _{rr} < 5ns / 10mA	MINIMELF
TMMBAT43	30	200	0.5	25	0.33 0.45 1	2 15 200	7	1	η > 80% / 45MHz	
TMMBAT48	40	350	2	10	0.5 0.75 0.9	50 200 500	12	1	t _{rr} < 10ns / 10mA	
TMMBAT41	100	100	0.1	50	0.45 1	1 200	2	1		
TMMBAT46	100	150	2	50	0.25 0.45 1	0.1 10 250	6	1		
TMMBAT49	80	500	200	80	0.32 0.42 1	10 100 1000	35	5		MELF
TMBYV10-40	40	1000	500	40	0.55 0.85	1000 3000	220	0		
TMBYV10-60	60	1000	500	60	0.70 1	1000 3000	40	5		

η : Detection efficiency

* : Pulse test tp ≤ 300s, δ < 2%