

**GENERAL PURPOSE & INDUSTRIAL**

**MINIMELF / MELF**



MINIMELF



MELF

**SCHOTTKY DIODES**

Type	V <sub>RRM</sub> (V)	I <sub>F</sub> I <sub>O*</sub> (mA)	I <sub>R</sub> (1) max (μA)	V <sub>R</sub> (V)	V <sub>F</sub> (1) max (V)	I <sub>F</sub> (mA)	C max (pF)	V <sub>R</sub> (V)	Dynamic parameters	Package
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**UHF and ultra fast switching T<sub>amb</sub> = 25°C**

TMM BAR 19	4	30	0.25	3	0.6	10	1	1	F = 6 dB / 1 GHz Q <sub>S</sub> < 3 pC / 10 mA τ < 100 ps / 20 mA t <sub>rr</sub> < 1 ns / 3 mA	MINIMELF
TMM BAT 29	5	30	0.05	1	0.55	10	1	0		
TMM BAT 19	10	30	0.1	5	0.4	1	1.2	0		
TMM BAT 45	15	30	0.1	6	0.5	10	1.1	1		
TMM BAR 10 / TMM 5712	20	35	0.1	15	0.41	1	1.2	0		
TMM BAR 11	15	20	0.1	8	0.41	1	1.2	0		
TMM BAR 28 / TMM 5711	70	15	0.2	50	0.41	1	2	0	τ < 100 ps / 5 mA	
TMM 6263	60	15	0.2	50	0.41	1	2.2	0		

**general purpose T<sub>amb</sub> = 25°C**

TMM BAT 42	30	200	0.5	25	{ 0.4 0.65 1	{ 10 50 200	7	§ 1	t <sub>rr</sub> < 5 ns / 10 mA	MINIMELF
TMM BAT 43	30	200	0.5	25	{ 0.45 1	{ 15 200	7	§ 1	η > 80 % / 45 MHz	
TMM BAT 47	20	350	4	10	{ 0.25 0.4 1	{ 0.1 10 300	12	§ 1	t <sub>rr</sub> < 10 ns / 10 mA	
TMM BAT 48	40	350	2	10	{ 0.25 0.4 0.9	{ 0.1 10 500	12	§ 1	t <sub>rr</sub> < 10 ns / 10 mA	
TMM BAT 41	100	100	0.1	50	{ 0.45 1	{ 1 200	2	§ 1		
TMM BAT 46	100	150	2	50	{ 0.25 0.45 1	{ 0.1 10 250	6	§ 1		
TM BAT 49	80	1000	200	80	{ 0.32 0.42 1	{ 10 100 1000	120	§ 0		MELF
TM BYV 10-20A	20	1000*	300	20	{ 0.45 0.75	{ 1000 3000	330	§ 0		
TM BYV 10-20	20	1000*	500	20	{ 0.55 0.85	{ 1000 3000	220	§ 0		
TM BYV 10-30	30	1000*	500	30	{ 0.55 0.85	{ 1000 3000	220	§ 0		
TM BYV 10-40	40	1000*	500	40	{ 0.55 0.85	{ 1000 3000	220	§ 0		
TM BYV 10-60	60	1000*	500	60	{ 0.70 1	{ 1000 3000	150	§ 0		

F : Mixer noise figure.  
 Q<sub>S</sub> : Stored charges (B-line).  
 η : Detection efficiency.  
 τ : Minority carrier life time (Kraukauer method)  
 (1) Pulse test t<sub>p</sub> ≤ 300 μs δ < 2%.  
 § Typical value.