

TECHNICAL DATA SHEET

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ULTRAFAST POWER RECTIFIER

Qualified per MIL-PRF-19500/647

DEVICES 1N6778	1N6779)			LEVELS JAN JANTX JANTX
ABSOLUTE MAXIMUM RATIN	-	ess otherwise no	oted) Value	Unit	
	1N6778		400		
eak Repetitive Reverse Voltage	1N6779	V _{RWM}	600	Vdc	
Average Forward Current ⁽¹⁾	$T_{C} = +100^{\circ}C$	$I_{\rm F}$	15	Adc	
Peak Surge Forward Current		I _{FSM}	140	A (pk)	
Fhermal Resistance Junction to Case		$R_{\theta JC}$	1.8	°C/W	
Note:					TO-257
(1) Derate at $300 \text{mA/}^{\circ}\text{C}$ above $T_{\text{C}} =$	+100°C				(2 Pin Versi
ELECTRICAL CHARACTERIST	TCS ($T_A = +25 \circ C$, ur	nless otherwise	noted)		

Parameters / Test Conditions	Symbol	Min.	Max.	Unit	
Breakdown Voltage $I_R = 10 \mu A^{(2)}$	1N6778 1N6779	V _{BR}	400 600		Vdc
Forward Voltage $I_F = 8Adc^{(2)}$ $I_F = 15Adc^{(2)}$		$f V_{F1} \ V_{F2}$		1.40 1.60	Vdc
Reverse Leakage Current $V_R = 320V^{(2)}$ $V_R = 480V^{(2)}$	1N6778 1N6779	I _{R1}		10	μAdc
Reverse Leakage Current $V_R = 320V^{(2)}$ $V_R = 480V^{(2)}$	T _C = +100°C 1N6778 1N6779	I _{R2}		1.0	mA
Reverse Recovery Time $I_F = 0.5$, $I_{RM} = 1.0$, $I_{RR} = 0.25$		t _{rr}		60	ns
Junction Capacitance $V_R = 5Vdc, f = 1.0MHz$		C _J		300	pF

Notes:

(2) Pulse test, 300 μ s, Duty Cycle $\leq 2\%$



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