imall

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Fast Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value				Units
Symbol	i arameter	1A	1B	1C	1D	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	150	200	V
I _{F(AV)}	Average Rectified Forward Current, @ T _A =120°C	1.0				A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30			A	
T _{stg}	Storage Temperature Range	-50 to +150			٥C	
TJ	Operating Junction Temperature	-50 to +150			٥C	

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

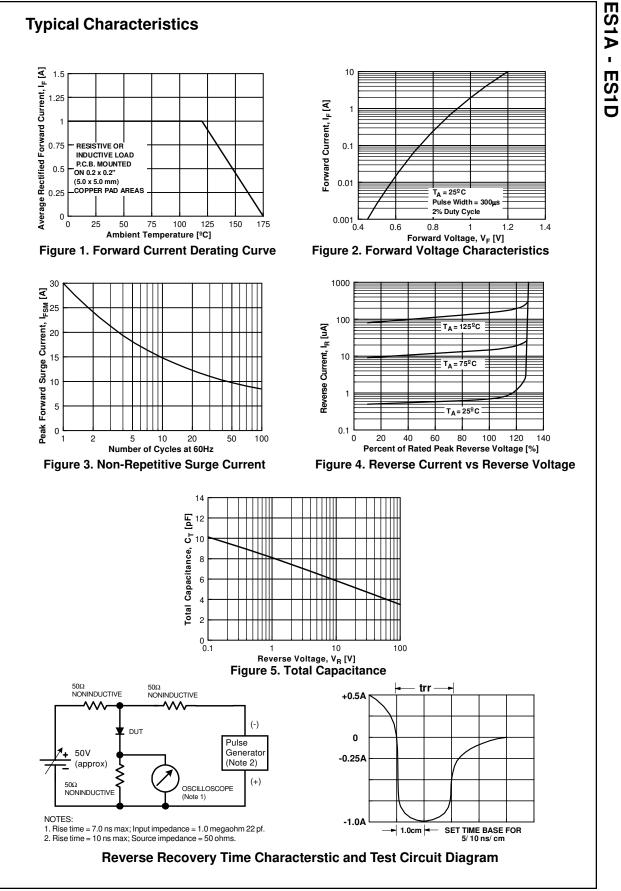
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	1.47	W
R _{eJA}	Thermal Resistance, Junction to Ambient*	85	°C/W
$R_{ extsf{ hetaJL}}$	Thermal Resistance, Junction to Lead*	35	°C/W

*Device mounted on FR-4 PCB 0.013 mm.

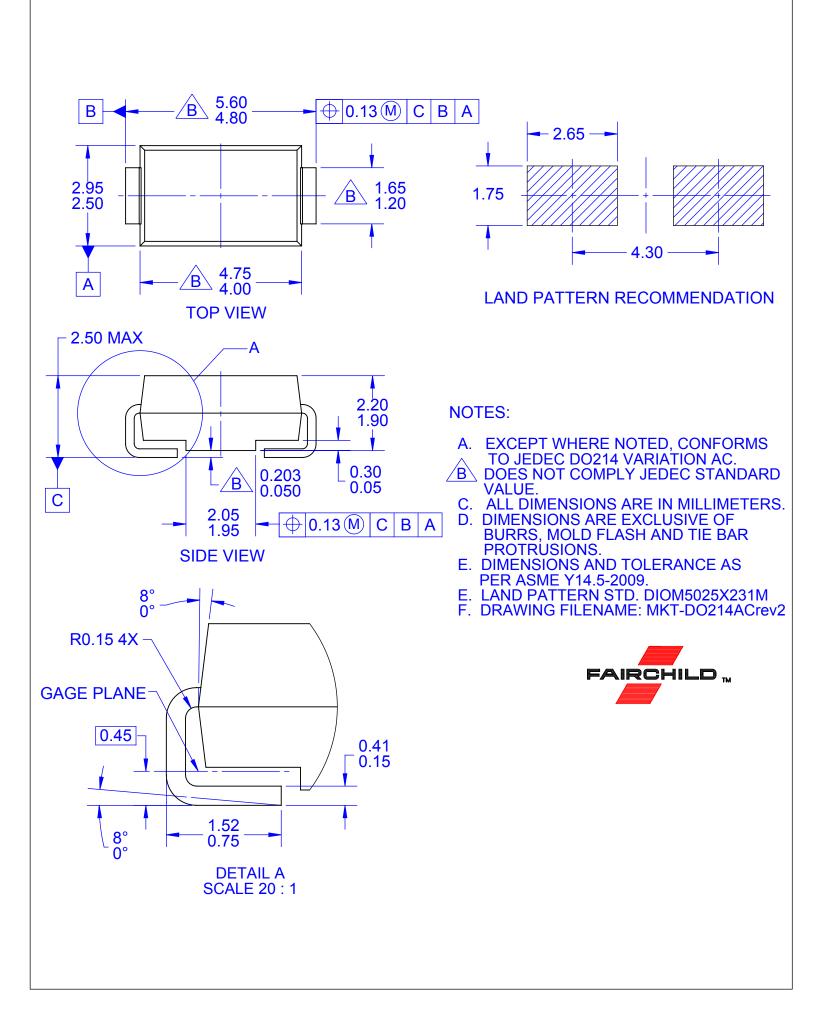
Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter		Device				Units
			1A	1B	1C	1D	
V _F	Forward Voltage @ 1.0 A		0.92				V
t _{rr}	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_B = 1.0 \text{ A}, I_{BB} = 0.25 \text{ A}$		15			ns	
I _R	Reverse Current @ rated V _R	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 100			μΑ μΑ	
C _T	Total Capacitance $V_B = 4.0 V, f = 1.0 MHz$		7.0			pF	



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ES1A-ES1D, Rev. C1



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