S3A-S3M



General Purpose Rectifiers

Absolu	Absolute Maximum Ratings* T _A = 25°C unless otherwise noted									
Symbol	Parameter		Value							
		3A	3B	3D	3G	3J	3K	3M		
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
I _{F(AV)}	Average Rectified Forward Current, @ $T_A = 100^{\circ}C$	rrent, @ T _A = 100°C 3.0					A			
I _{FSM}	Non-repetitive Peak Forward Surge Current 100 8.3 ms Single Half-Sine-Wave 100					A				
T _{stg}	Storage Temperature Range -55 to +150					°C				
TJ	Operating Junction Temperature -55 to +150					°C				

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

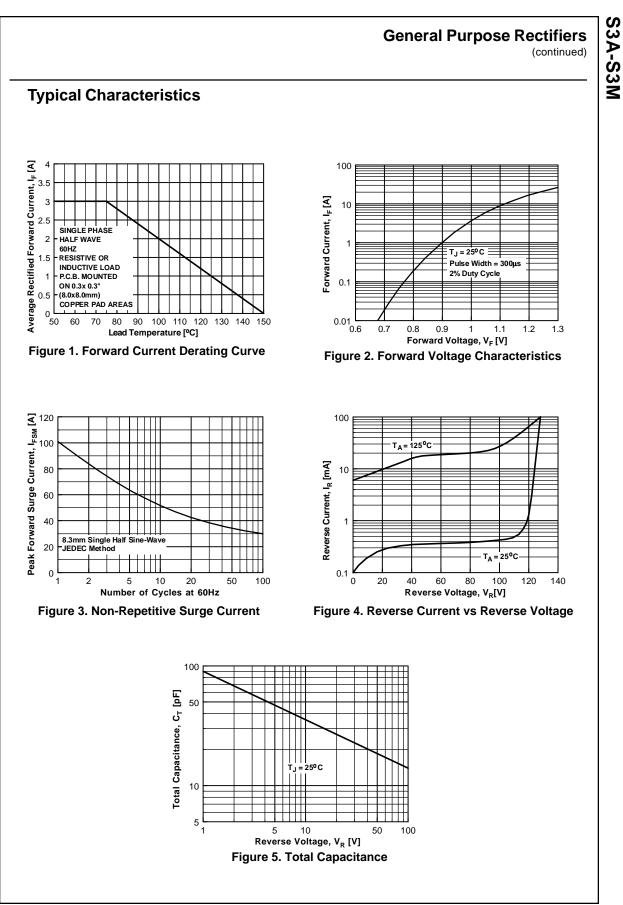
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	2.6	W
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient*	47	°C/W

*Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter			Device							
				3B	3D	3G	3J	3K	3M		
V _F	Forward Voltage @ 3.0 A		1.2					V			
t _{rr}	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$	ł	2.5						μs		
I _R	Reverse Current @ rated V _R	T _A = 25°C T _A = 125°C	5.0 250						μΑ μΑ		
C _T	Total Capacitance V _R = 4.0 V, f = 1.0 MHz		60					pF			



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S3A-S3M, Rev. C

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