MOSLEADER[®]



1.0 Ampere Fast Recovery Rectifiers

Absolute Maximum Ratings^{*} $T_{a} = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units	
lo	Average Rectified Current		A	
	@ T _A = 100°C			
If(surge)	Peak Forward Surge Current			
r(ouigo)	8.3 ms single half-sine-wave	30	А	
	Superimposed on rated load (JEDEC method)			
PD	Total Device Dissipation	1.19	W	
	Derate above 25°C	9.5	mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient **	105	°C/W	
$R_{\theta JC}$	Thermal Resistance, Junction to Case **	32	°C/W	
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.

** Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device							Units
	F1	F2	F3	F4	F5	F6	F7	1
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
$\label{eq:maximum} \begin{array}{ll} \text{Maximum Reverse Current} \\ @ \mbox{rated } V_R & T_A = 25^\circ C \\ & T_A = 125^\circ C \end{array}$		5.0 50						
Maximum Forward Voltage @ 1.0 A	1.3							V
Maximum Reverse Recovery Time I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		150				500		nS
Typical Junction Capacitance $V_R = 4.0 V, f = 1.0 MHz$	10							pF

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(continued)



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