



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Silicon Power Schottky Diode

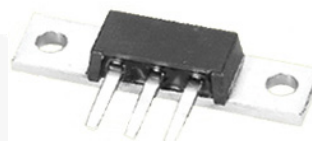
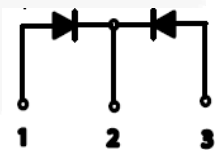
$V_{RRM} = 40\text{ V} - 100\text{ V}$

$I_{F(AV)} = 60\text{ A}$

Features

- High Surge Capability
- Types from 40 V to 100 V V_{RRM}
- Not ESD Sensitive

D61-3M Package



Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	FST6340M	FST6345M	FST6360M	FST6380M	FST63100M	Unit
Repetitive peak reverse voltage	V_{RRM}		40	45	60	80	100	V
RMS reverse voltage	V_{RMS}		28	32	42	56	70	V
DC blocking voltage	V_{DC}		40	45	60	80	100	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	FST6340M	FST6345M	FST6360M	FST6380M	FST63100M	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ }^\circ\text{C}$	60	60	60	60	60	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	600	600	600	600	600	A
Maximum instantaneous forward voltage (per leg)	V_F	$I_{FM} = 30\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	0.70	7.0	0.75	0.84	0.84	V
Maximum Instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25\text{ }^\circ\text{C}$	1	1	1	1	1	mA
		$T_j = 100\text{ }^\circ\text{C}$	10	10	10	10	10	
		$T_j = 150\text{ }^\circ\text{C}$	30	30	30	30	30	

Thermal characteristics

Thermal resistance, junction - case (per leg)	$R_{\theta JC}$		1.20	1.20	1.20	1.20	1.20	$^\circ\text{C/W}$
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Figure .1- Typical Forward Characteristics

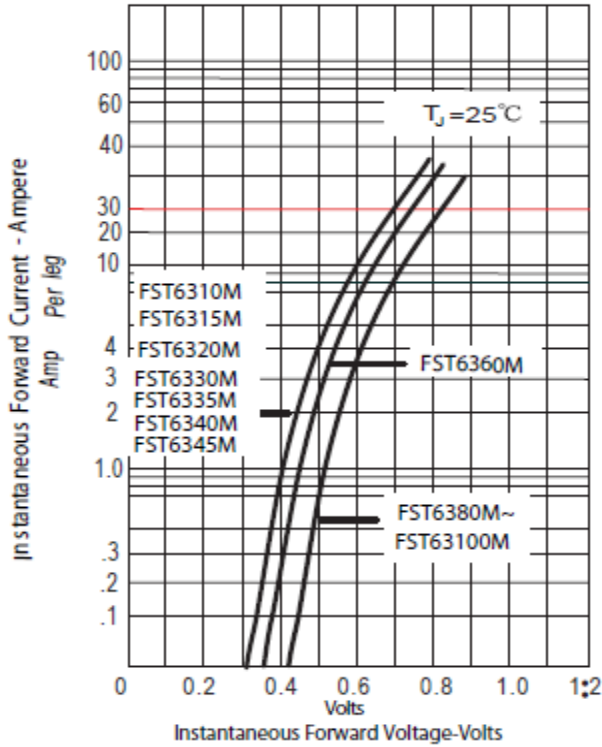


Figure .2- Forward Derating Curve

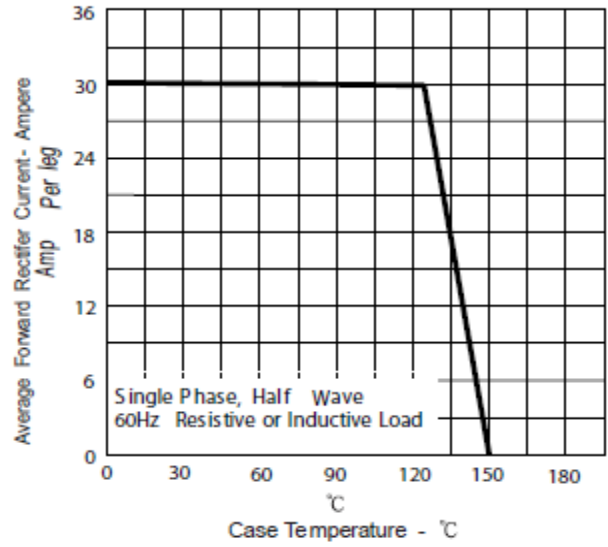


Figure.3-Peak Forward Surge Current

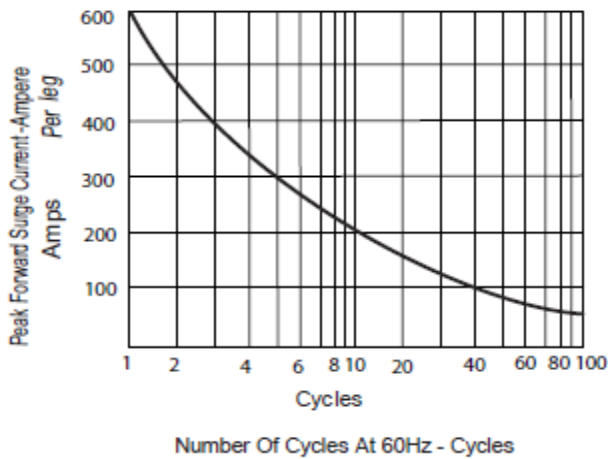
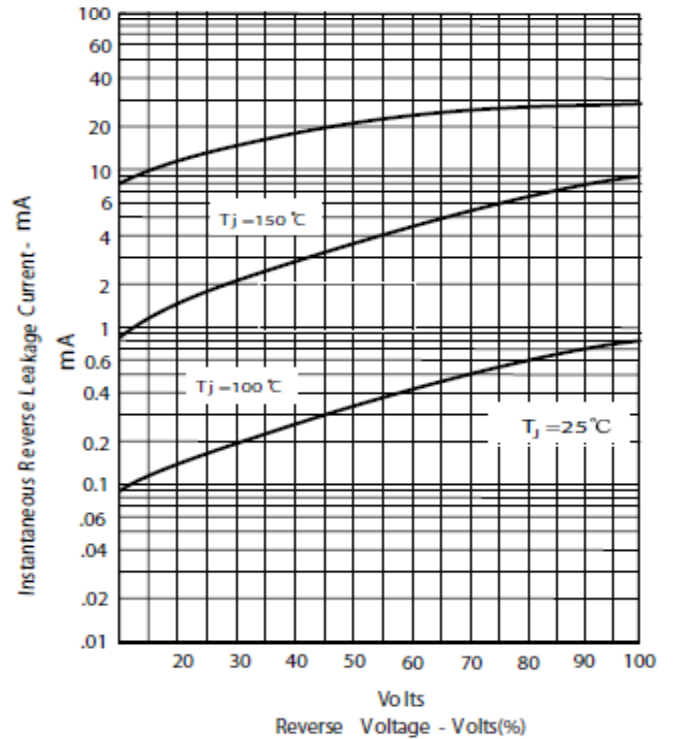
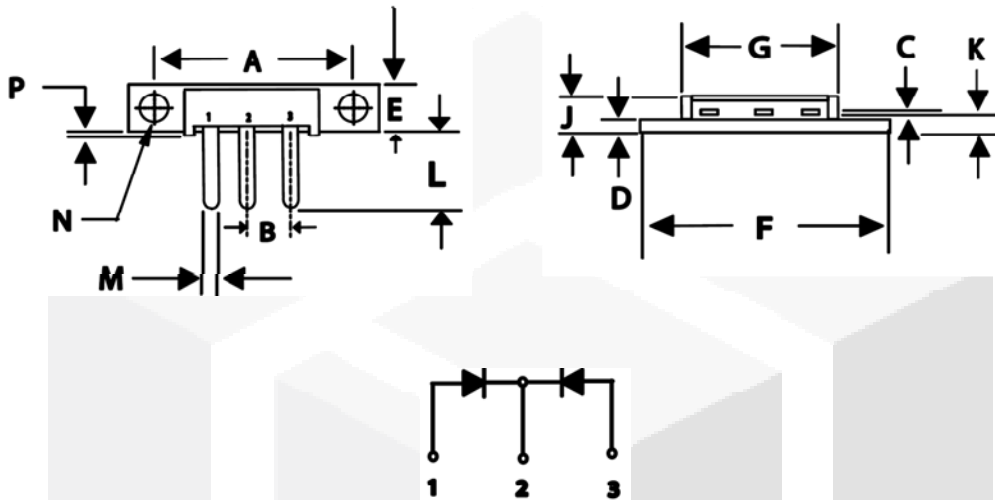


Figure .4- Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS					
DIM	IN CHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.180	1.195	29.97	30.35	
B	.200	NOM	5.08	NOM	2PL
C	.027	.037	0.69	0.94	
D	.088	.098	2.24	2.49	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.695	.715	17.65	18.16	
J	.24	.26	6.1	6.6	
K	.115	.135	2.92	3.43	
L	.457	.477	11.61	12.12	
M	.065	.085	1.65	2.16	
N	.151	.161	3.84	4.09	∅
P	.015	.025	0.38	0.64	