

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Low V_F Silicon Power Schottky Diode

 $V_{RRM} = 40 V$

 $I_{F(AV)} = 160 A$

Features

- High Surge Capability
- Isolated to Plate
- Not ESD Sensitive





TO-249AB Package





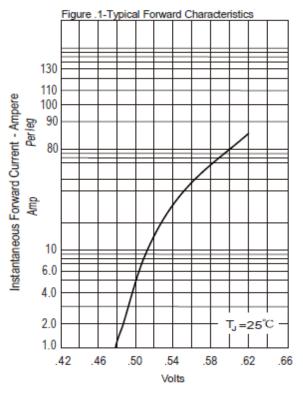
Maximum ratings, at T_i = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter		Symbol	Conditions	FST16040L	Unit
Maximum recurrent peak re	everse voltage	V_{RRM}		40	V
Maximum RMS voltage		V_{RMS}		28	V
Maximum DC blocking volta	age	V_{DC}		40	V
Operating temperature		T _j		-55 to 150	°C
Storage temperature		T_{stg}		-55 to 150	°C

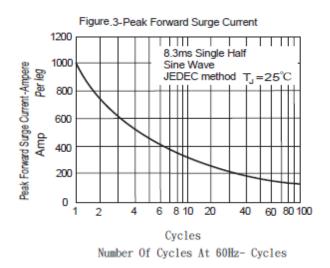
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	FST16040L	Unit		
Average forward current (per pkg)	I _{F(AV)}	T _C = 100 °C	160	Α		
Peak forward surge current (per leg)	I _{FSM}	t_p = 8.3 ms, half sine	1000	Α		
Maximum instantaneous forward voltage (per leg)	V_{F}	I _{FM} = 80 A, Tj = 25 °C	0.60	V		
Maximum instantaneous reverse		T _j = 25 °C	2			
current at rated DC blocking voltage (per leg)	I _R	T _j = 100 °C	200	mA		
Thermal characteristics						
Maximum thermal resistance, junction - case (per leg)	R_{oJC}		0.50	°C/W		









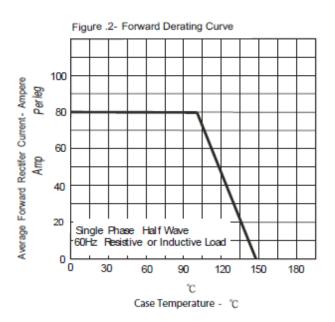
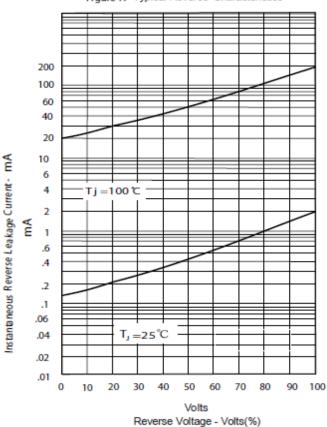


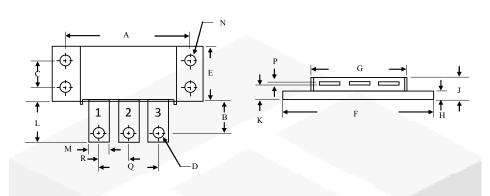
Figure .4- Typical Reverse Characteristics

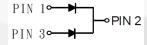




Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.





	Inches		Millimeters		
	Min	Max	Min	Max	
A	1.995	2.005	50.67	50.93	
В	0.300	0.325	7.62	8.26	
С	0.495	0.505	12.57	12.83	
D	0.182	0.192	4.62	4.88	
Е	0.990	1.010	25.15	26.65	
F	2.390	2.410	60.71	61.21	
G	1.495	1.525	37.90	38.70	
Н	0.114	0.122	2.90	3.10	
J		0.420		10.67	
K	0.256	0.275	6.5	7.0	
L	0.490	0.510	12.45	12.95	
M	0.330	0.350	8.38	8.90	
N	0.175	0.195	4.45	4.95	
P	0.035	0.045	0.89	1.14	
R	0.445	0.455	11.30	11.56	
Q	0.890	0.910	22.61	23.11	