



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

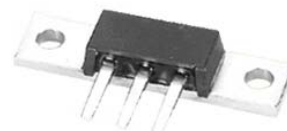
$V_{RRM} = 20\text{ V} - 100\text{ V}$

$I_F = 80\text{ A}$

### Features

- High Surge Capability
- Types up to 100V  $V_{RRM}$

D61-3M Package



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

Parameter	Symbol	Conditions	FST8320M	FST78330M	FST8335M	FST8340M	Unit
Repetitive peak reverse voltage	$V_{RRM}$		20	30	35	40	V
RMS reverse voltage	$V_{RMS}$		14	21	35	28	V
DC blocking voltage	$V_{DC}$		20	30	35	40	V
Continuous forward current	$I_F$	$T_C \leq 110\text{ }^{\circ}\text{C}$	80	80	80	80	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^{\circ}\text{C}$ , $t_p = 8.3\text{ ms}$	800	800	800	800	A
Operating temperature	$T_j$		-40 to 175	-40 to 175	-40 to 175	-40 to 175	$^{\circ}\text{C}$
Storage temperature	$T_{stg}$		-40 to 175	-40 to 175	-40 to 175	-40 to 175	$^{\circ}\text{C}$

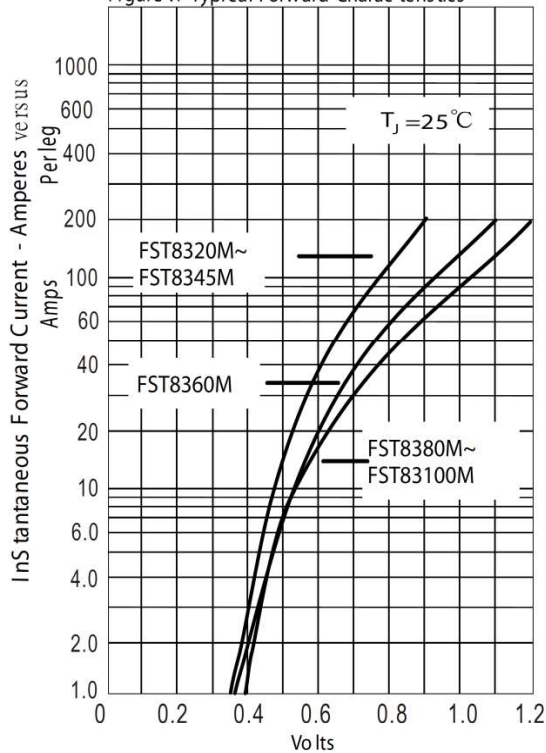
### Electrical characteristics, at $T_j = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	FST8320M	FST8330M	FST8335M	FST78340M	Unit
Diode forward voltage	$V_F$	$I_F = 80\text{ A}$ , $T_j = 25\text{ }^{\circ}\text{C}$	0.65	0.65	0.65	0.65	V
Reverse current	$I_R$	$V_R = 20\text{ V}$ , $T_j = 25\text{ }^{\circ}\text{C}$	1.5	1.5	1.5	1.5	mA
		$V_R = 20\text{ V}$ , $T_j = 125\text{ }^{\circ}\text{C}$	500	500	500	500	

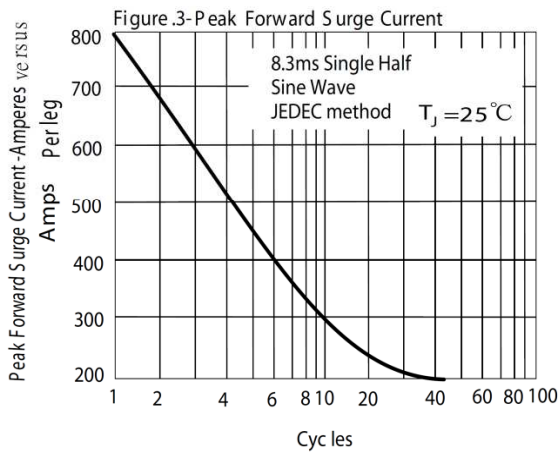
### Thermal characteristics

Thermal resistance, junction - case	$R_{thJC}$		1.2	1.2	1.2	1.2	$^{\circ}\text{C/W}$
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Figure .1-Typical Forward Characteristics

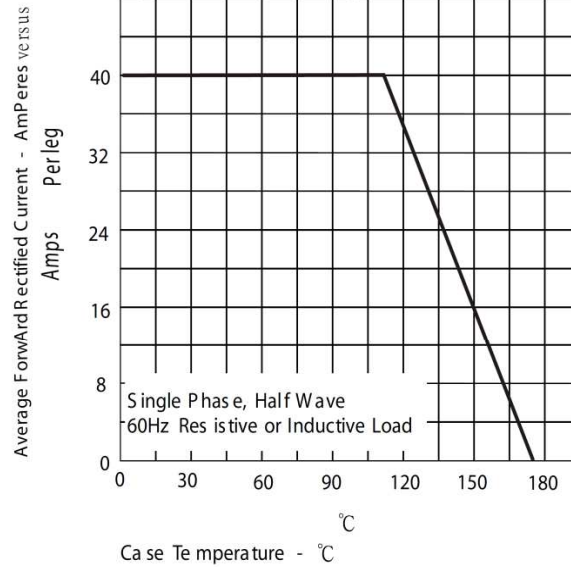


Instantaneous Forward Voltage - Volts



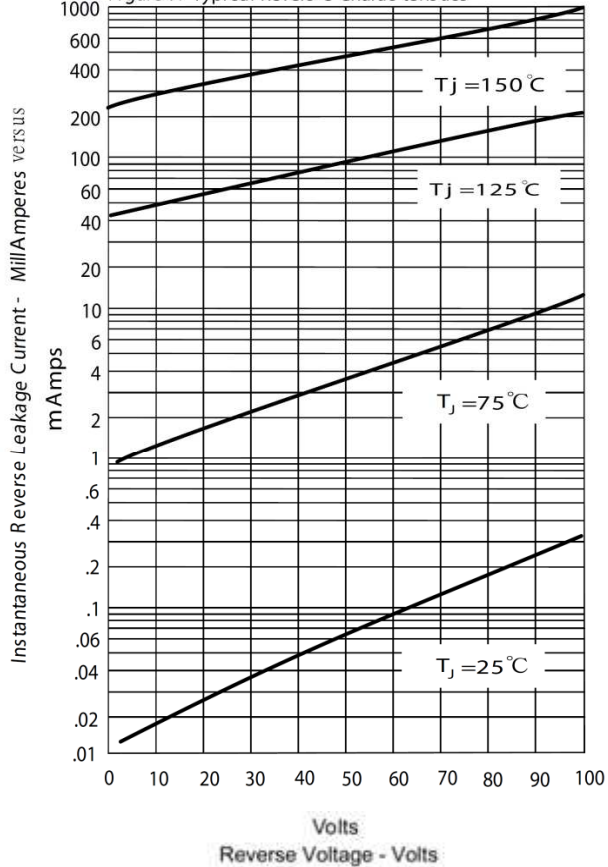
Number Of Cycles At 60Hz - Cycles

Figure .2- Forward Derating Curve



Case Temperature -  $^\circ\text{C}$

Figure .4-Typical Reverse Characteristics



Reverse Voltage - Volts