

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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FST8320SM thru FST8340SM

Silicon Power Schottky Diode

 $V_{RRM} = 20 \text{ V} - 100 \text{ V}$ $I_F = 80 \text{ A}$

Features

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

D61-3SM Package



Maximum ratings, at T_i = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	FST8320SM	FST78330SM	FST8335SM	FST8340SM	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 ≤ 110 °C	80	80	80	80	Α
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	800	800	800	800	Α
Operating temperature	T _j		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C
Storage temperature	T _{stg}		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C

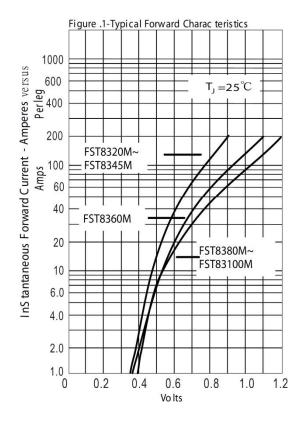
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	FST8320SM	FST8330SM	FST8335SM	FST78340SM	Unit
Diode forward voltage	V _F	I _F = 80 A, T _j = 25 °C	0.65	0.65	0.65	0.65	V
Reverse current	I _R	$V_R = 20 \text{ V}, T_j = 25 ^{\circ}\text{C}$	1.5	1.5	1.5	1.5	mA
		$V_R = 20 \text{ V}, T_j = 125 ^{\circ}\text{C}$	500	500	500	500	
Thermal characteristics							
Thermal resistance, junction - case	R_{thJC}		1.2	1.2	1.2	1.2	°C/W

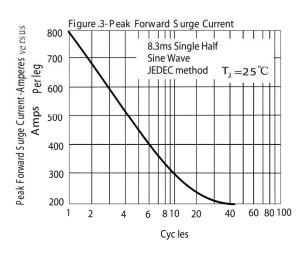




FST8320SM thru FST8340SM



Instantaneous Forward Voltage - Volts



Number Of Cycles At 60Hz - Cycles

