

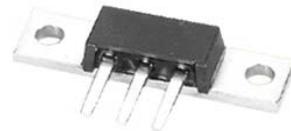
Silicon Power Schottky Diode

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

Features

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

D61-3M Package

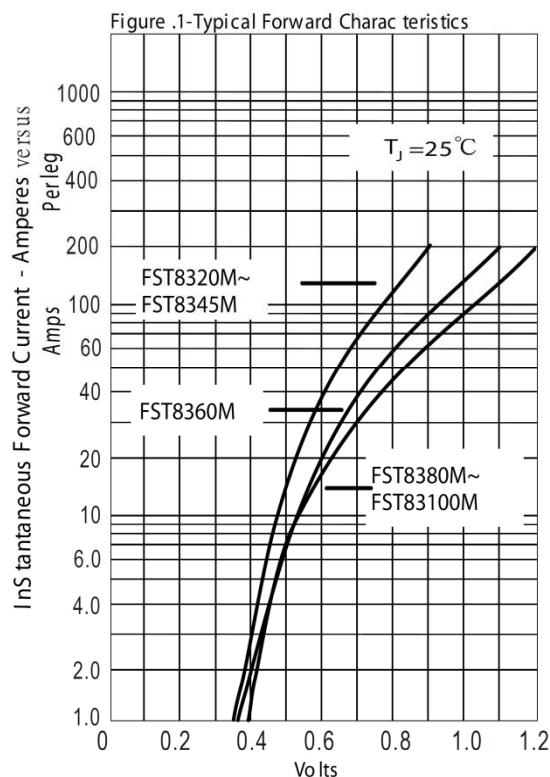


Maximum ratings, at T_j = 25 °C, unless otherwise specified

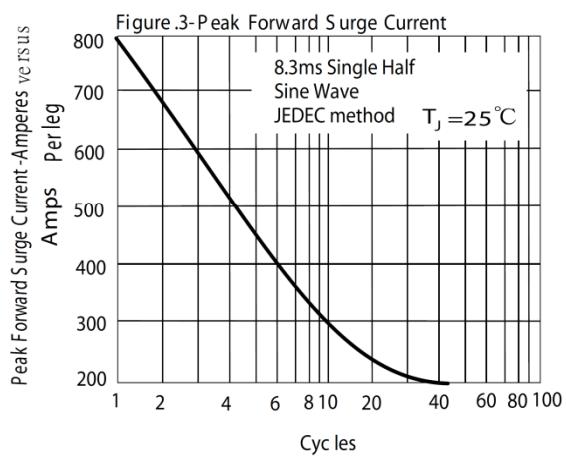
Parameter	Symbol	Conditions	FST8345M	FST8360M	FST8380M	FST83100M	Unit
Repetitive peak reverse voltage	V _{RRM}		45	60	80	100	V
RMS reverse voltage	V _{RMS}		32	42	56	70	V
DC blocking voltage	V _{DC}		45	60	80	100	V
Continuous forward current	I _F	T _C ≤ 110 °C	80	80	80	80	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	800	800	800	800	A
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 T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	FST8345M	FST8360M	FST8380M	FST83100M	Unit
Diode forward voltage	V _F	I _F = 80 A, T _j = 25 °C	0.65	0.75	0.84	0.84	V
Reverse current	I _R	V _R = 20 V, T _j = 25 °C	1.5	1.5	1.5	1.5	mA
Thermal characteristics							
Thermal resistance, junction - case	R _{thJC}		1.2	1.2	1.2	1.2	°C/W



Instantaneous Forward Voltage - Volts



Number Of Cycles At 60Hz - Cycles

