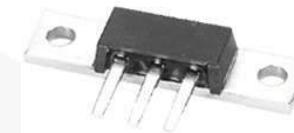
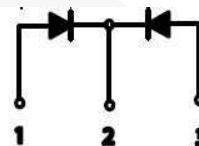


Silicon Power Schottky Diode

 $V_{RRM} = 20 \text{ V}$
 $I_{F(AV)} = 80 \text{ A}$

Features

- High Surge Capability
- Types from 20 V to 40V V_{RRM}
- Not ESD Sensitive

D61-3M Package


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

Parameter	Symbol	Conditions	FST8320M	FST8330M	FST8335M	FST8340M	V
Repetitive peak reverse voltage	V_{RRM}		20	30	35	40	
RMS reverse voltage	V_{RMS}		14	21	25	28	
DC blocking voltage	V_{DC}		20	30	35	40	
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	FST8320M	FST8330M	FST8335M	FST8340M	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_c = 125^\circ\text{C}$	80	80	80	80	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3 \text{ ms, half sine}$	600	600	600	600	A
Maximum instantaneous forward voltage (per leg)	V_F	$I_{FM} = 40 \text{ A}, T_j = 25^\circ\text{C}$	0.72	0.72	0.72	0.72	V
Maximum Instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ $T_j = 150^\circ\text{C}$	1 10 30	1 10 30	1 10 30	1 10 30	mA

Thermal characteristics

Thermal resistance, junction - case (per leg)	$R_{\theta JC}$	1.10	1.10	1.10	1.10	°C/W
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Figure .1-Typical Forward Characteristics

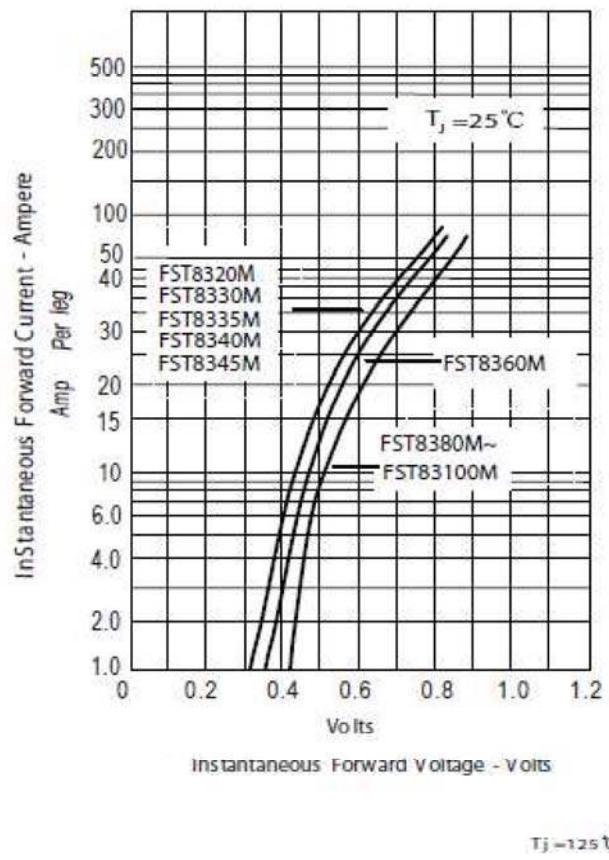


Figure .2- Forward Derating Curve

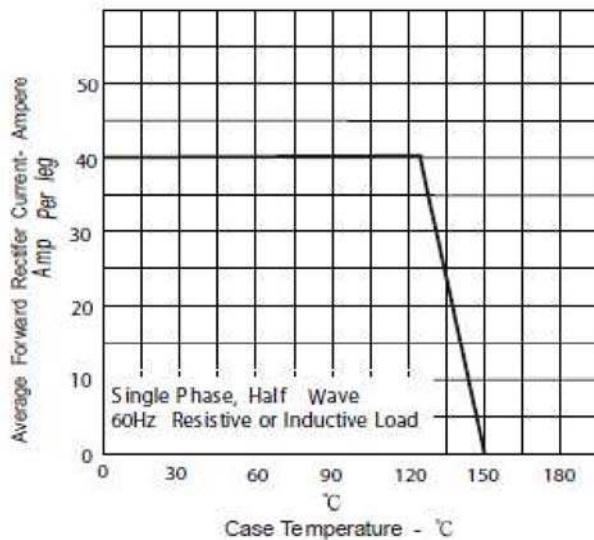


Figure .3-Peak Forward Surge Current

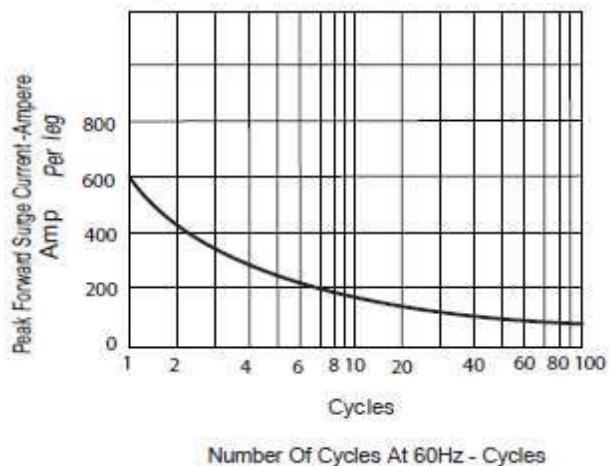
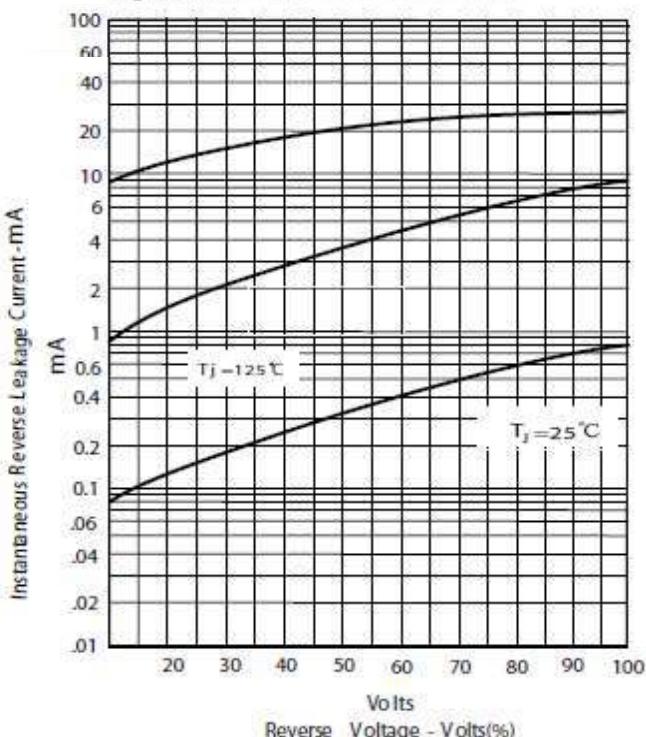


Figure .4- Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

