

## Silicon Power Schottky Diode

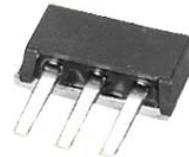
$V_{RRM} = 20 \text{ V - } 100 \text{ V}$

$I_F = 80 \text{ A}$

### Features

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

D61-3SM Package



### Maximum ratings, at $T_j = 25^\circ\text{C}$ , 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	$I_F$	$T_C \leq 110^\circ\text{C}$	80	80	80	80	A
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	A
Operating temperature	$T_j$		-40 to 175	-40 to 175	-40 to 175	-40 to 175	$^\circ\text{C}$
Storage temperature	$T_{sg}$		-40 to 175	-40 to 175	-40 to 175	-40 to 175	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	FST8320SM	FST8330SM	FST8335SM	FST78340SM	Unit
Diode forward voltage	$V_F$	$I_F = 80 \text{ A}, T_j = 25^\circ\text{C}$	0.65	0.65	0.65	0.65	V
Reverse current	$I_R$	$V_R = 20 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 20 \text{ V}, T_j = 125^\circ\text{C}$	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	$^\circ\text{C/W}$
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