

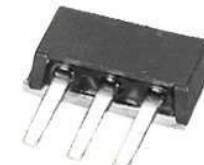
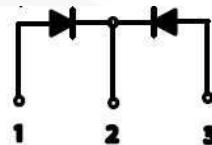
## Silicon Power Schottky Diode

$V_{RRM} = 45 \text{ V}$   
 $I_F = 80 \text{ A}$

### Features

- High Surge Capability
- Types from 45 V to 100V  $V_{RRM}$
- Not ESD Sensitive

D61-3SM Package



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

Parameter	Symbol	Conditions	FST8345SM	FST8360SM	FST8380SM	FST83100SM	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	$I_F$	$T_C \leq 110^\circ\text{C}$	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	$T_j$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	FST8345SM	FST8360SM	FST8380SM	FST83100SM	Unit
Diode forward voltage	$V_F$	$I_F = 80 \text{ A}, T_j = 25^\circ\text{C}$	0.65	0.75	0.84	0.84	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
<b>Thermal characteristics</b>							
Thermal resistance, junction - case	$R_{thJC}$		1.2	1.2	1.2	1.2	$^\circ\text{C/W}$

