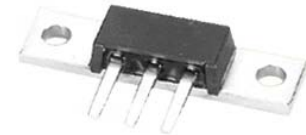


Silicon Power Schottky Diode

 $V_{RRM} = 20\text{ V} - 100\text{ V}$
 $I_F = 70\text{ A}$

Features

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

D61-3M Package


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

Parameter	Symbol	Conditions	FST7345M	FST7360M	FST7380M	FST73100M	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	56	80	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Continuous forward current	I_F	$T_C \leq 100\text{ °C}$	70	70	70	70	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	600	600	600	600	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 $T_j = 25\text{ °C}$, unless otherwise specified

Parameter	Symbol	Conditions	FST7345M	FST7360M	FST7380M	FST73100M	Unit
Diode forward voltage	V_F	$I_F = 70\text{ A}$, $T_j = 25\text{ °C}$	0.55	0.75	0.84	0.84	V
Reverse current	I_R	$V_R = 20\text{ V}$, $T_j = 25\text{ °C}$ $V_R = 20\text{ V}$, $T_j = 125\text{ °C}$	5 500	5 500	5 500	5 500	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		1.2	1.2	1.2	1.2	°C/W
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