ESTF8SS80RM

Features

- Low profile package
- Ideal for automated placement
- Glass passivated pellet chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability

SMC

Applications

- For use in general purpose rectification of power supplies, inverters, converters, freewheeling diodes for consumer, automotive, and telecommunication

Absolute Maximum Ratings @ Tc=25℃

Symbol	Parameter	ratings	Unit
V_{RRM}	Repetitive peak reverse voltage @50μA	800	V
$I_{F(AV)}$	Average forward current @Tc=110℃	8[1]	A
		1.6[2]	A
I_{FSM}	Peak one Cycle Surge Forward @t=8.3ms	200	A
T_j	Junction Temperature	-55~+150	℃
T_{STG}	Storage temperature range	-55~+150	℃

Electrical Specifications @ Tc=25℃

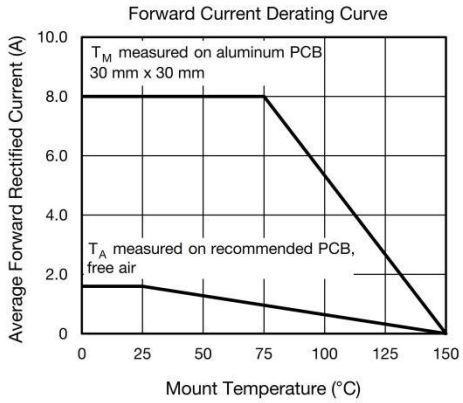
Symbol	Parameter		Ratings			Unit
			Min	Typ	Max	
I_R	T_j=25℃	$V_R=V_{RRM}$			10	μA
	T_j=125℃				350	μA
V_F	T_j=25℃	I_F=8A		0.96	0.985	V
	T_j=125℃			0.87	0.935	V
T_{rr}	I_F=0.5A, I_R=1A, I_{RR}=0.25A			4		μs
CJ	4.0V,1MHz			79		pF
Rth(j-A)	Thermal resistance			75		℃/W

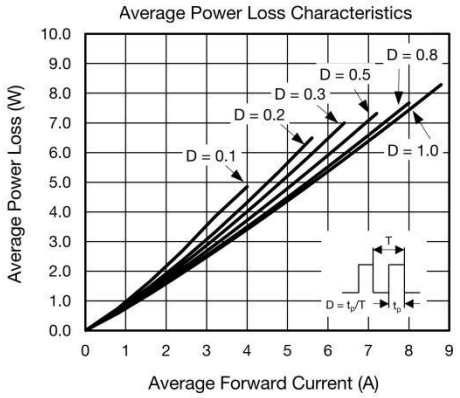
Notes

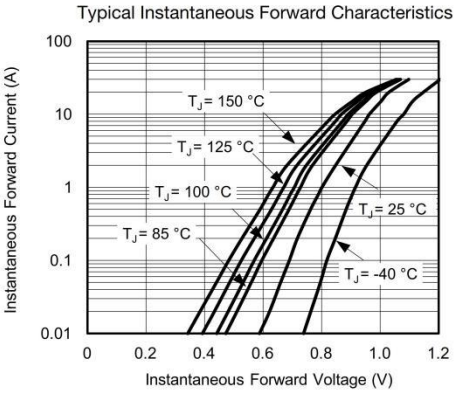
(1) Mounted on aluminum PCB 30 mm x 30 mm with aluminum heatsink

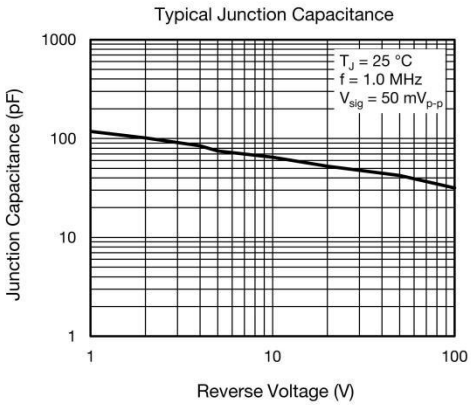
(2) Free air, mounted on recommended copper pad area

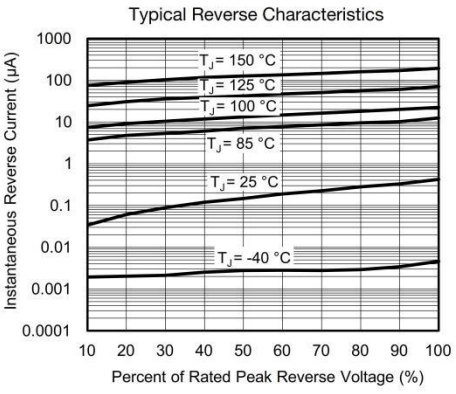
Typical Performance Curves

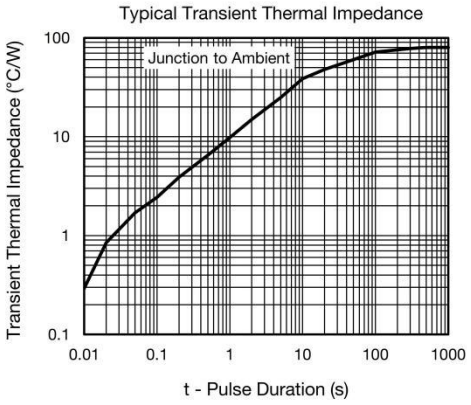












Package