

ESTF8SS60UC

Fast Recovery Diode

Features

- Fast Recovery $t_{rr}=70\text{ns}(@I_F=8\text{A})$
- Forward Voltage Drop : $V_{F(Typ.)} = 1.35\text{V}(@T_C=25^\circ\text{C})$
- 600V Reverse Voltage and High Reliability
- Avalanche Energy Rated
- RoHS product



Applications

- Switching Power Supplies
- Snubber diode
- UPS



Absolute Maximum Ratings @ $T_C=25^\circ\text{C}$

Symbol	Parameter	ratings	Unit
V_{RRM}	Repetitive peak reverse voltage @50 μA	600	V
V_{RWM}	Working Peak Reverse Voltage	600	V
$I_{F(AV)}$	Average forward current @ $T_C=100^\circ\text{C}$	8	A
I_{FSM}	Peak one Cycle Surge Forward @ $t=10\text{ms}$	80	A
T_J	Junction Temperature	-50~+150	$^\circ\text{C}$
T_{STG}	Storage temperature range	-50~+150	$^\circ\text{C}$

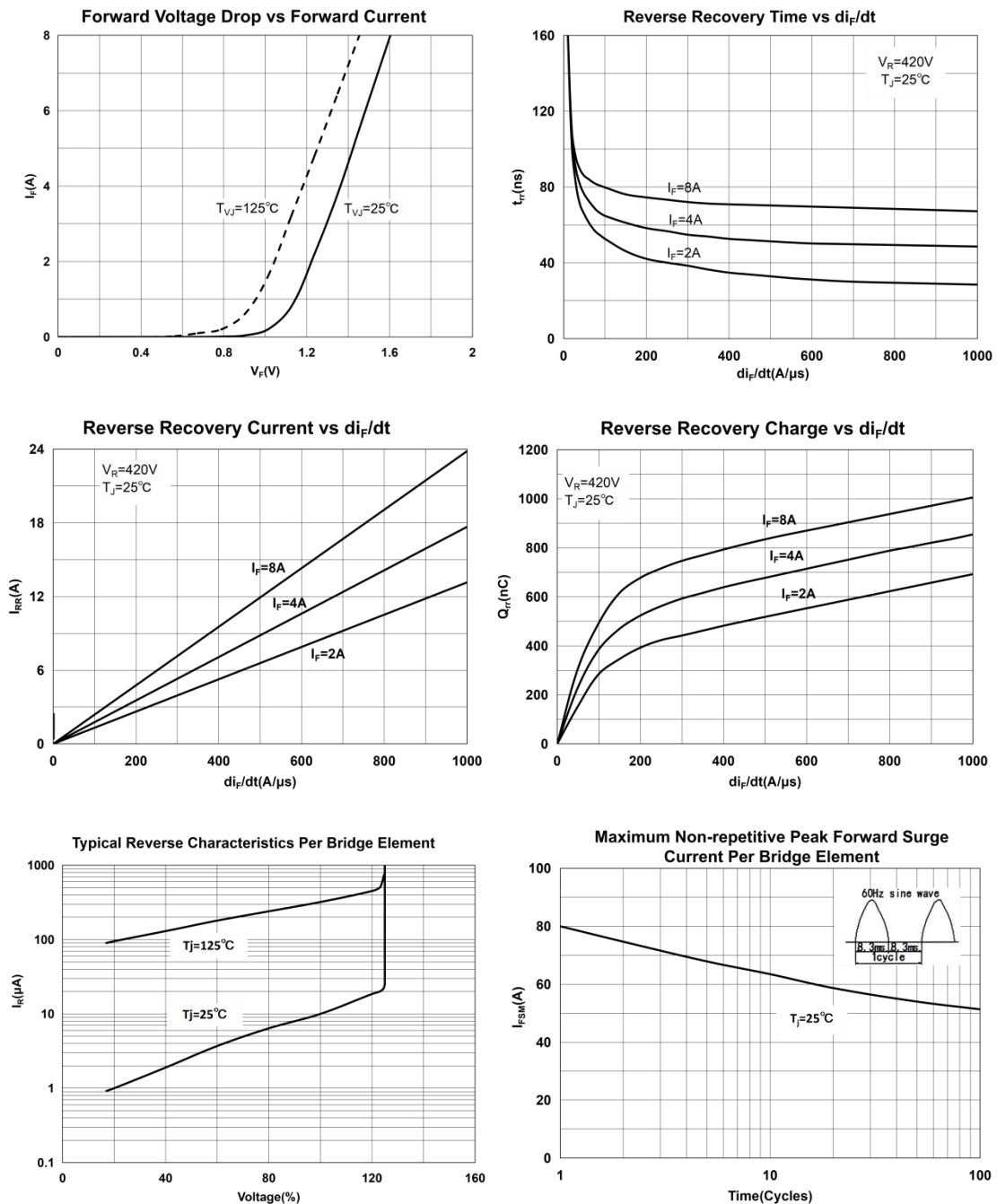
Electrical Specifications @ $T_C=25^\circ\text{C}$

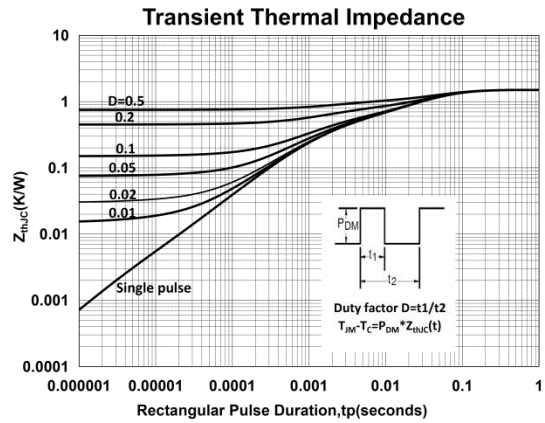
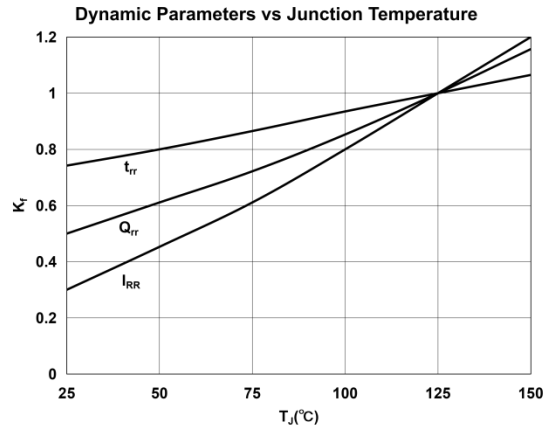
Symbol	Parameter		Ratings			Unit
			Min	Typ	Max	
I _R	T _J =25℃	V _R =V _{RRM}			50	μA
	T _J =125℃				500	μA
V _F	T _J =25℃	I _F =8A		1.35	1.65	V
	T _J =125℃			1.1	1.45	V
T _{rr}	I _F =1A, V _R =30V, di _F /dt=-200A/μs			27	45	ns
T _{rr}	I _F =8A, V _R =420V, di _F /dt=-500A/μA			70		ns
I _{rr}				11.92		A
R _{th(j-c)}	Thermal resistance from junction to case	TO-220AC		1.5		℃/W

Order Information

Order codes	Silkscreen	Package	Packaging
ESTF8SS60UC	ESTF8SS60UC	TO-220AC	

Typical Performance Curves





Package

