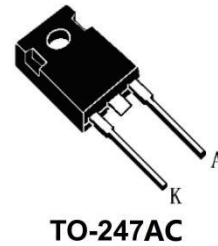


ESTF60SS40SS

Super Fast Recovery Diode

Features

- Ultra fast Recovery Time
- Low Recovery Loss
- Low Forward Voltage
- Low Leakage Current



Applications

- Switching Power Supplies
- Snubber diode
- Anti parallel Diode for high frequency Switching Devices



Absolute Maximum Ratings @ T_c=25°C

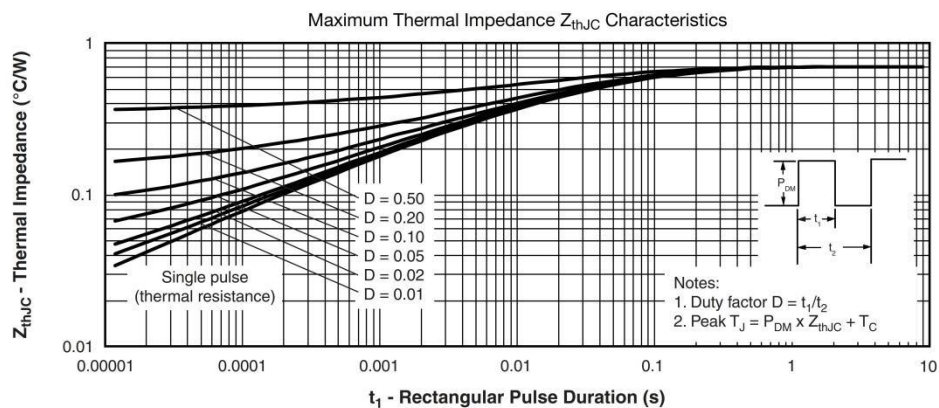
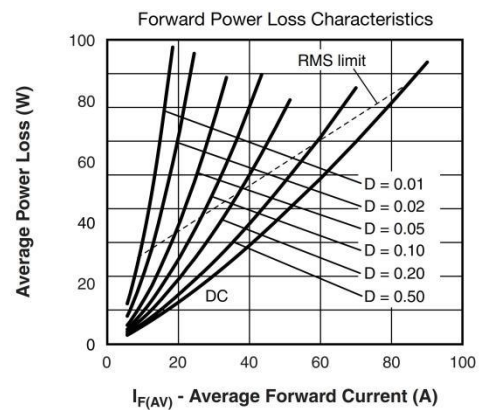
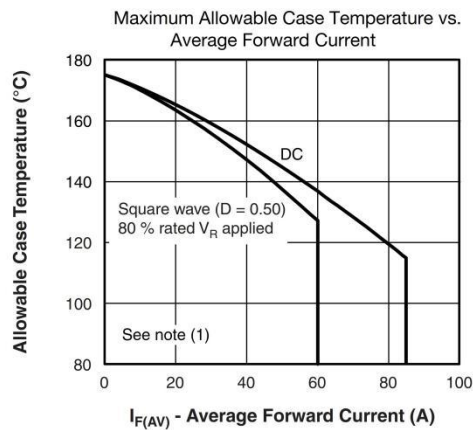
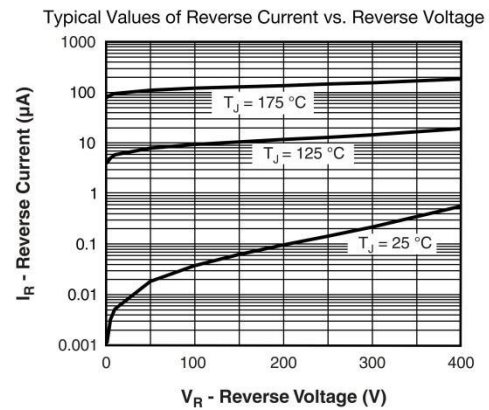
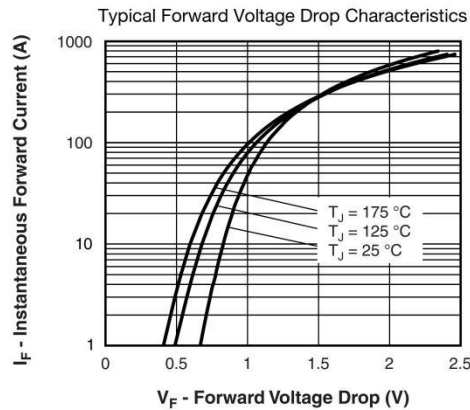
Symbol	Parameter	ratings	Unit
V_{RRM}	Repetitive peak reverse voltage @50μA	400	V
V_{RWM}	Working Peak Reverse Voltage	400	V
I_{F(AV)}	Average forward current @T _c =110°C	60	A
I_{FSM}	Peak one Cycle Surge Forward @t=8.3ms	600	A
T_j	Junction Temperature	-55~+175	°C
T_{STG}	Storage temperature range	-55~+175	°C

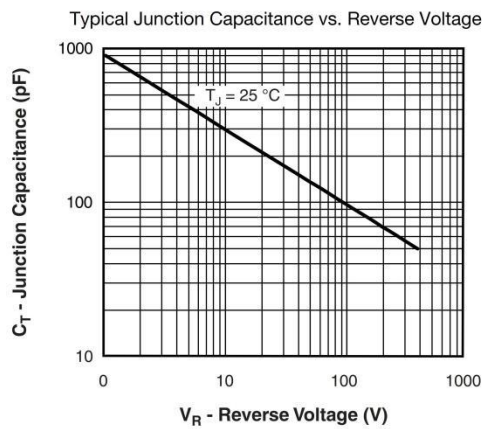
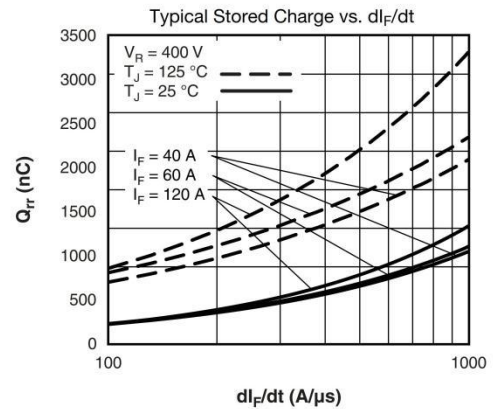
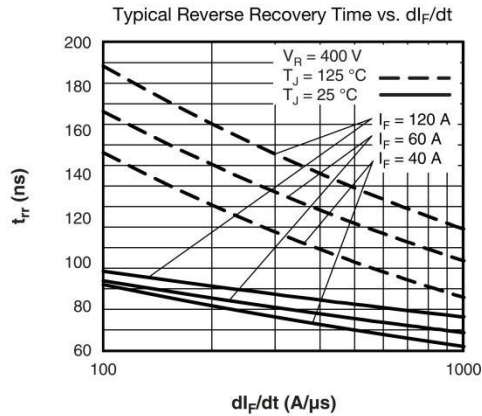
Electrical Specifications @ T_c=25°C

Symbol	Parameter		Ratings			Unit
			Min	Typ	Max	
I _R	T _j =25℃	V _R =V _{RRM}			50	μA
	T _j =125℃				2000	μA
V _F	T _j =25℃	I _F =60A		1.05	1.25	V
	T _j =125℃			0.87	1.03	V
T _{rr}	I _F =60A,V _R =200V,di _F /dt=-200A/μs @T _C =25℃			85		ns
Q _{rr}				375		nC
I _R RM				8.8		A
T _{rr}	I _F =30A,V _R =200V,di _F /dt=-200A/μs @T _C =125℃			145		ns
Q _{rr}				1120		nC

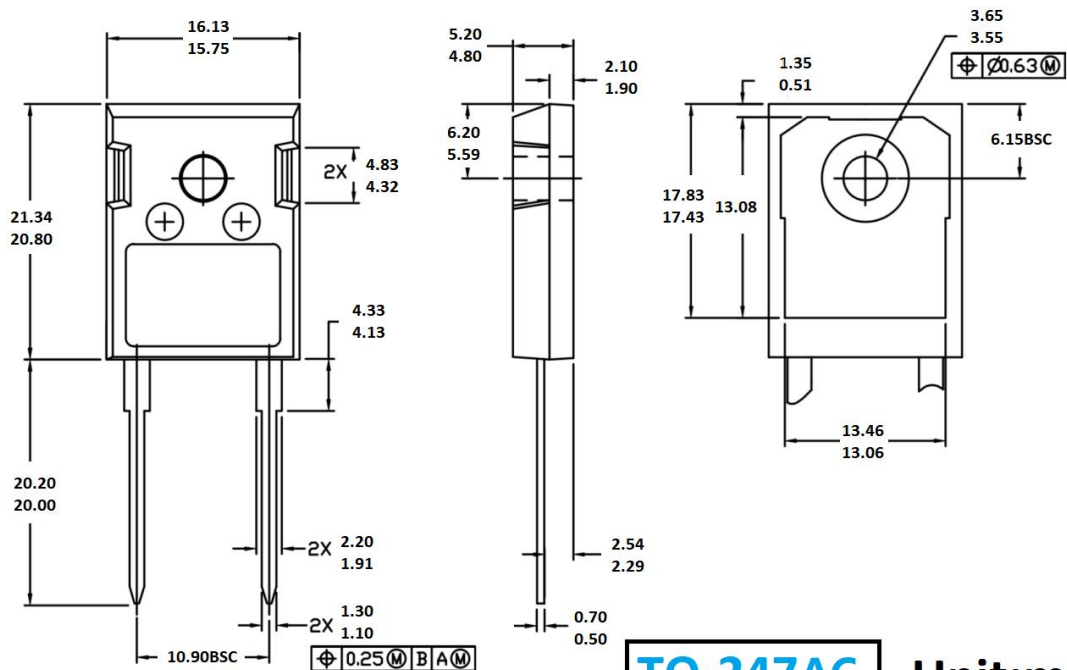
I_{RRM}			15.4		A
$R_{th(j-c)}$	Thermal resistance from junction to case	TO-247AC	0.2		$^{\circ}C/W$

Typical Performance Curves





Package



TO-247AC

Unit:mm