

### ESTF60SS160US

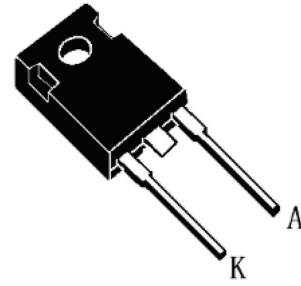
#### High Voltage Rectifier Diode

#### Feature

- Low power loss, high efficiency
- High reliability
- RoHS product

#### Applications

- Snubber diode
- Switch power supply
- Antiparallel Diode for high frequency switching devices



TO-247-2



#### Absolute Maximum Ratings @Tc = 25°C (Per Leg)

Symbol	Parameter	Conditions	Ratings	Unit
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage		1600	V
I <sub>F(AV)</sub>	Average Forward Current	T <sub>C</sub> =100°C	60	A
I <sub>FSM</sub>	Surge(non-repetitive) Forward Current	T <sub>J</sub> =45°C, t=8.3ms,60Hz,Sine	950	A
T <sub>J</sub>	Junction Temperature		-50~150	°C
T <sub>stg</sub>	Storage Temperature		-50~125	
Visol	Isolation Voltage	@ AC 1minute	3000	V

#### Thermal Characteristics

Symbol	Parameter	Conditions	Value			Unit
			Min.	Type	Max.	
R <sub>th(j-c)</sub>	Thermal Resistance	Junction to Case	-	-	0.35	°C/W

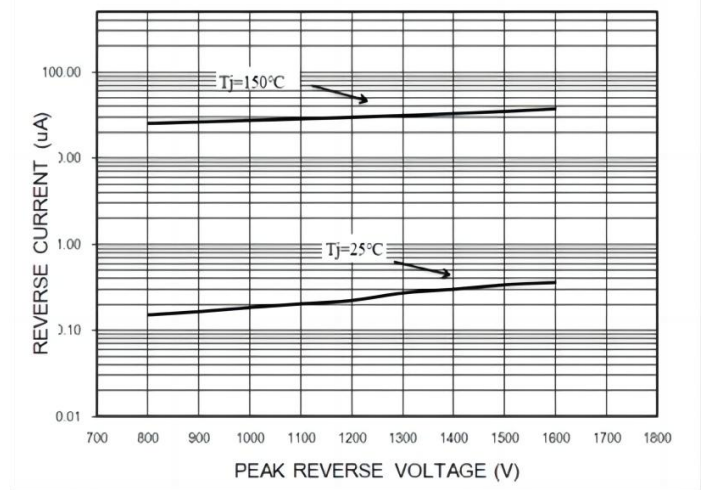
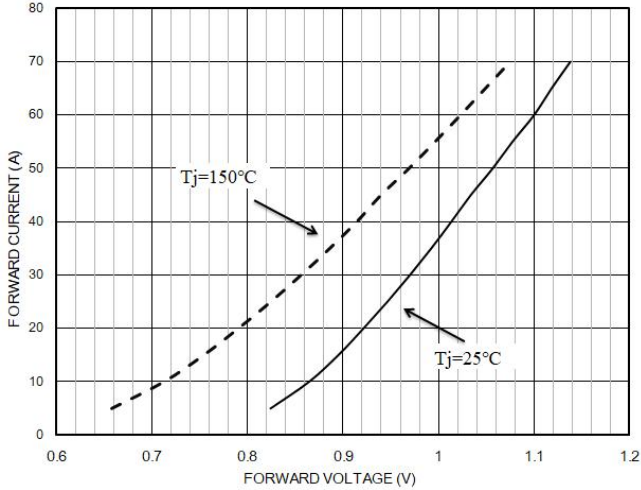
#### Electrical Characteristics @Tc = 25°C(unless otherwise specified)

Symbol	Parameter	Conditions	Min.	Type	Max.	Unit
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	I <sub>R</sub> = 100μA	1600	-	-	V
I <sub>RM</sub>	Reverse Leakage Current	V <sub>R</sub> = 1600V	-	-	20	μA
		V <sub>R</sub> = 1600V, T <sub>J</sub> = 150°C	-	-	80	μA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 60A	-	1.10	1.30	V
		I <sub>F</sub> = 60A, T <sub>J</sub> = 150°C	-	1.03	1.25	

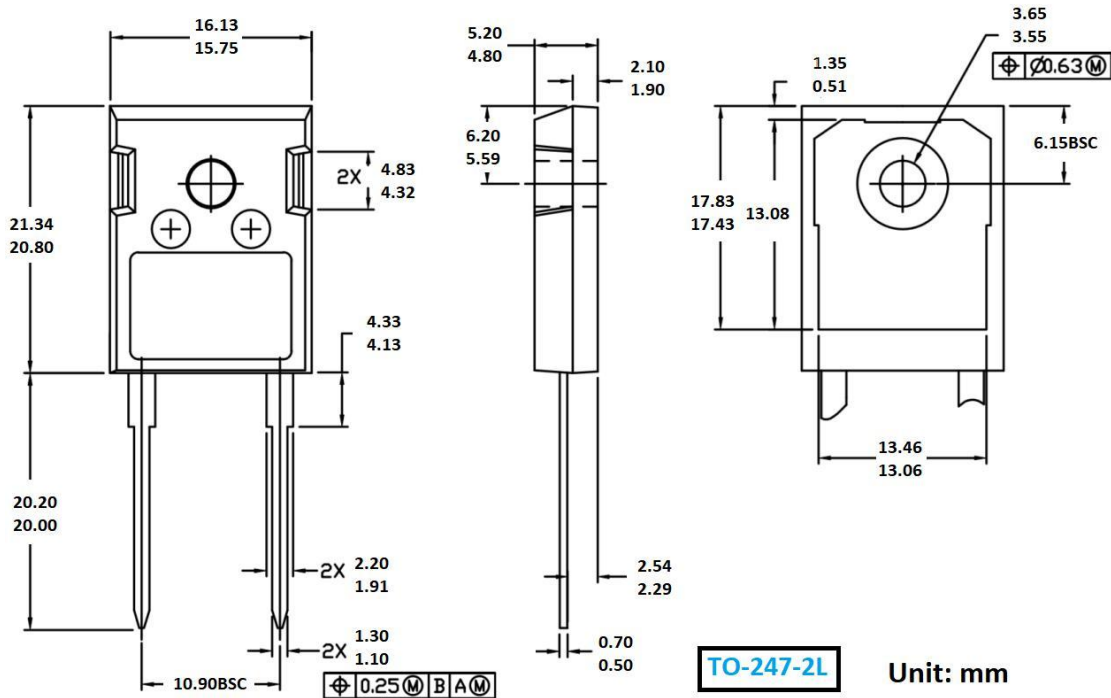
### Electrical Characteristics(Curves)

FIG.1 Typical forward characteristics

FIG.2 Typical reverse characteristics



### Package Dimension



TO-247-2L

Unit: mm