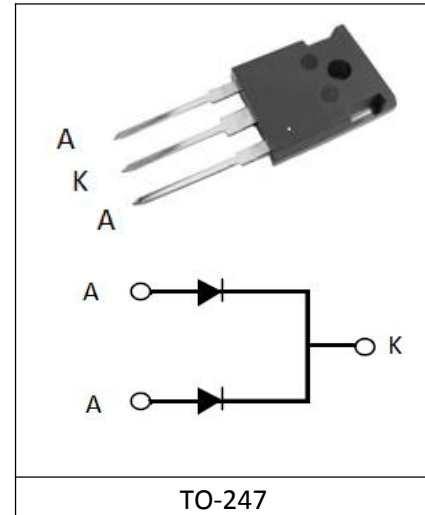


## SCHOTTKY RECTIFIERS

### Features:

- Low power loss,high efficiency
- High surge capacity
- For use in low voltage,high frequency inverters, free wheeling,and polarity protection applications
- Metal silicon junction,majority carrier conduction
- Guard ring for over voltage protection



### Absolute Maximum Ratings(Tc=25°C):

Characteristics	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	$V_{RRM}$	100	V
Average Rectified Forward Current	$I_{F(AV)}$	30	A
Non-repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	$I_{FSM}$	180	A
Collector power dissipation	$T_a=25^{\circ}C$ $P_{tot}$	2.5	W
Junction temperature	$T_j$	175	°C
Storage temperature range	$T_{STG}$	-55~175	°C

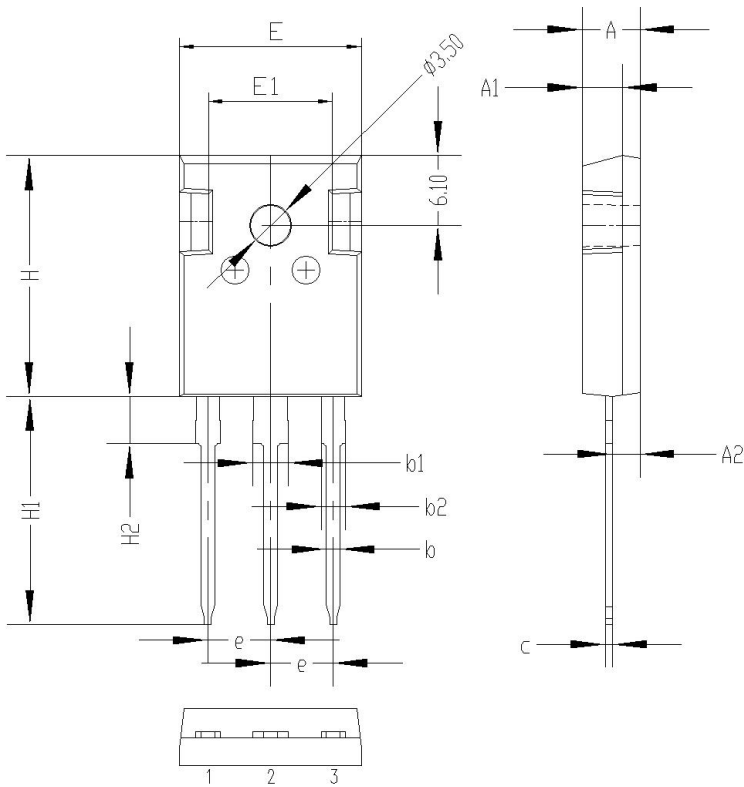
### Electrical Characteristics(Tc=25°C) :

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F=15A$ ; $T_C=25^{\circ}C$		0.77	0.79	V
Reverse Current	$I_R$	$V_R=100V$ ; $T_C=25^{\circ}C$ $V_R=100V$ ; $T_C=125^{\circ}C$			0.01 12.0	mA
Peak Repetitive Reverse Surge Current	$I_{RRM}$	2.0 us Pulsu Width , $f=1.0KHZ$ $T_J<175^{\circ}C$			4.0	A

Symbol	Paramter	Typ	Units
$R_{\theta JA}$	Junction-to-Ambient	45	°C/W

## Package Information

### TO-247 PACKAGE



Symbol	Unit mm		
	Min	Typ	Max
A	4.8	5.00	5.20
A1	3.3	3.5	3.7
A2	2.20	2.40	2.60
b	1.00	1.2	1.40
b1	2.90	3.10	3.30
b2	1.80	2.00	2.20
c	0.50	0.60	0.70
e	5.25	5.45	5.65
E	15.2	15.7	16.2
H	20.8	21	21.2
H1	19.5	20.0	20.5
H2	3.9	4.1	4.3
G	5.9	6.1	6.3
$\Phi P$	3.30	3.50	3.70