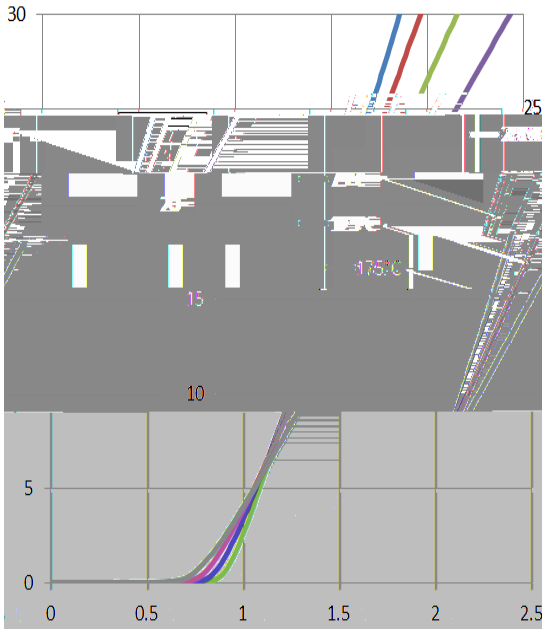
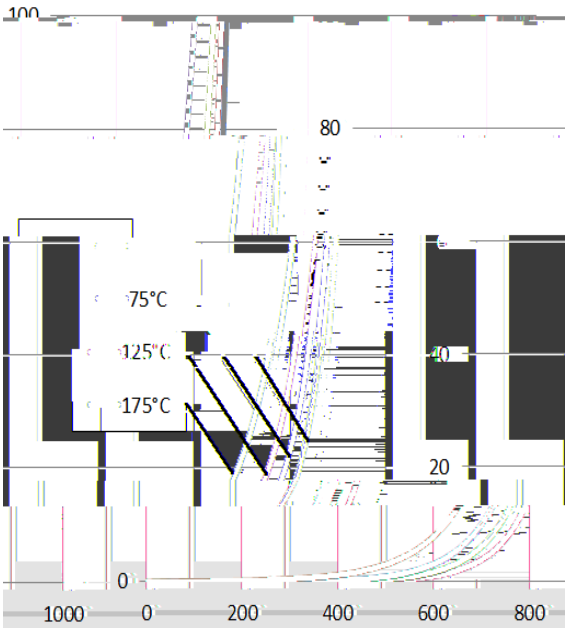
Electrical Characteristics

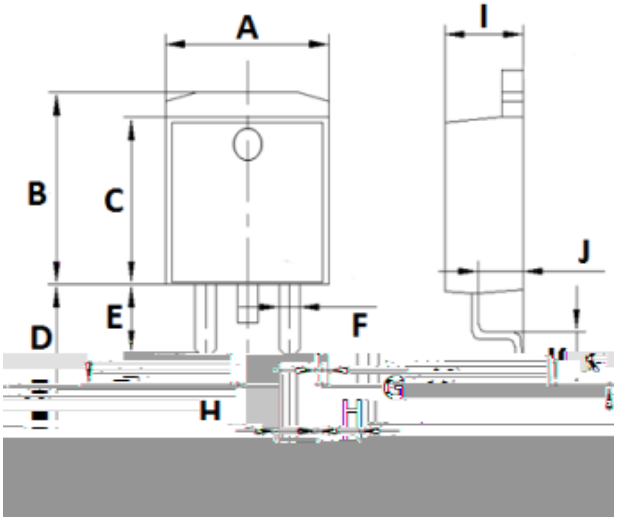
Symbol	Parameter	Typ.	Max.	Unit	Test Conditions	Note
V_F	Forward Voltage	1.4 1.7	1.65 2.3	V	I_F = 15A, T_J = 25 I_F = 15A, T_J = 175	Fig.1
I_R	Reverse Current	2 10	20 200	μA	V_R = 650V, T_J = 25 V_R = 650V, T_J = 175	Fig.2

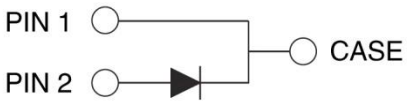




Package Dimensions

Package TO-263-2





Symbol	Min. (mm)	Typ. (mm)	Max. (mm)
A	9.9	10.1	10.3
B	9.90	10.1	10.3
C	8.50	8.7	8.90
D	4.85	5.05	5.25
E	3.00	3.2	3.40
F	1.05	1.25	1.45
G	0.60	0.8	1.00
H	2.34	2.54	2.74
I	4.40	4.6	4.80
J	2.40	2.6	2.80
K	2.55	1.75	2.95

Simplified Diode Model

Equivalent IV Curve for Model



Mathematical Equation

$$V_F = V_t + I_F \times R_{diff}$$

$V_t = -0.00102 \times T_j + 0.968$ [V]

$R_{diff} = 5.61 \times 10^{-7} \times T_j^2 + 4.77 \times 10^{-5} \times T_j + 0.029$

Note:

Tj = Diode Junction Temperature In Degrees Celsius, valid from 25°C to 175°C

I_F= Forward Current

Less than 30A

1) Before using our products, please contact our marketing managers and get the latest specifications.

2) Ongoing effortortortorng

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