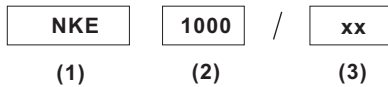


## DIODE MODULE

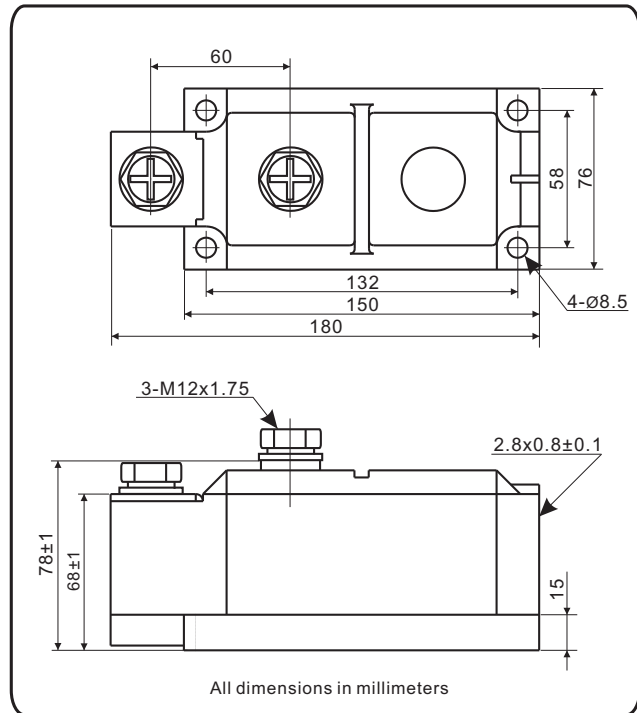
### Features

1. NKE1000 Series Diode modules are Designed for various power controls
2. Voltage rating up to 1600V
3. Electrically isolated mounting base
4. Internal connections

### Ordering code



- (1) For Diode modules NKE  
 (2) Maximum average forward current , A  
 (3) Voltage code , V ( code x 100 = / V<sub>RRM</sub> )



### Electrical Characteristics

Parameter		Condition	Max. Value	Unit
I <sub>F(AV)</sub>	Average forward current	180° half sine wave , 50 Hz, T <sub>j</sub> = 150°C Single side cooled , T <sub>c</sub> = 100 °C	1000	A
I <sub>F(RMS)</sub>	R.M.S. Forward current	Single side cooled , T <sub>c</sub> = 85 °C, T <sub>j</sub> = 150 °C	1587	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	t <sub>p</sub> = 10 ms V <sub>RMS</sub> = V <sub>RRM</sub> x 1.1, T <sub>j</sub> = 150 °C	600 to 1600	V
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> = V <sub>RRM</sub> , T <sub>j</sub> = 150 °C	40	mA
I <sub>FSM</sub>	Peak one-cycle surge ( non-repetitive forward current )	10 ms duration T <sub>j</sub> = 150 °C V <sub>R</sub> = 0.6 V <sub>RRM</sub>	22	KA
I <sup>2</sup> <sub>t</sub>	Max. Permissible surge energy		2395	A <sup>2</sup> Sx10 <sup>3</sup>
V <sub>FM</sub>	Peak forward voltage drop	I <sub>FM</sub> = 2400A , @ T <sub>c</sub> = 25 °C	1.7	V
V <sub>F(T0)</sub>	Forward conduction threshold voltage		0.8	V
r <sub>t</sub>	Forward conduction slope resistance		0.36	mΩ
T <sub>stg</sub>	Storage temperature range		-40 to 160	°C
R <sub>th(J-C)</sub>	Thermal resistance	Single side cooled	0.015	°C/W
W <sub>t</sub>	Approximate weight		2300	g
T	Busbar to module ( M 10 )	A mounting compound is recommended. Torque should be rechecked after a period of 3 hours.	60	Kgf.cm
	Module to heatsink ( M 6 )		30	Kgf.cm

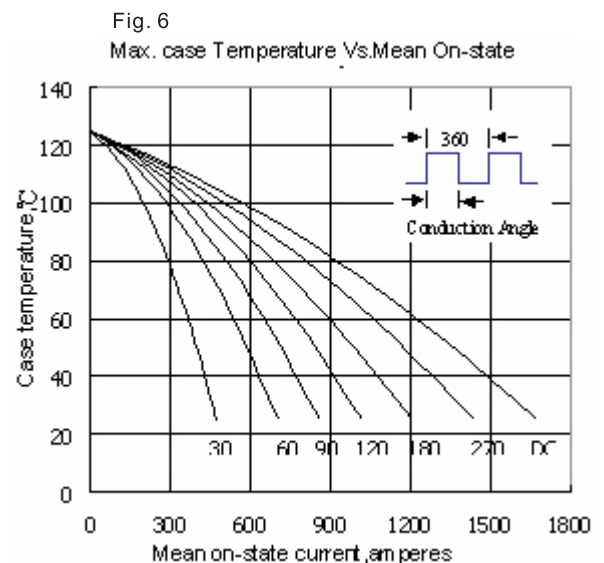
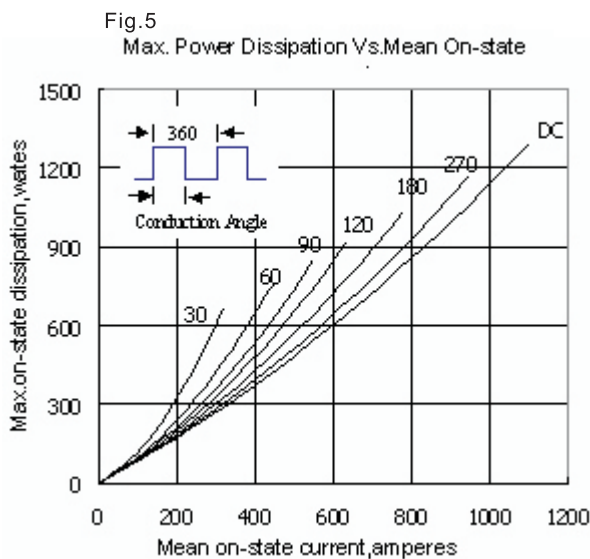
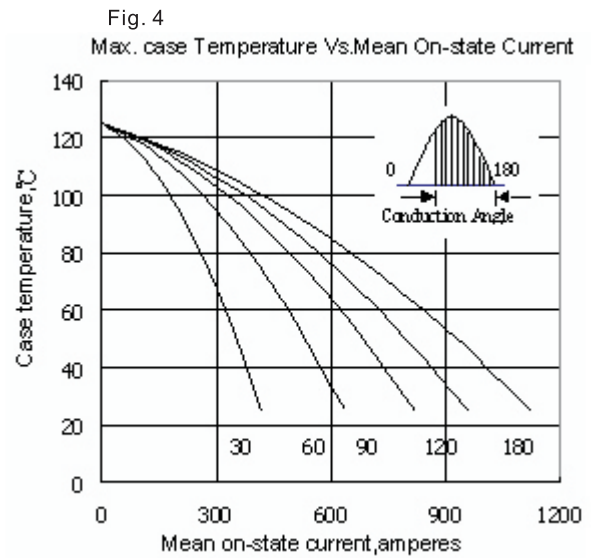
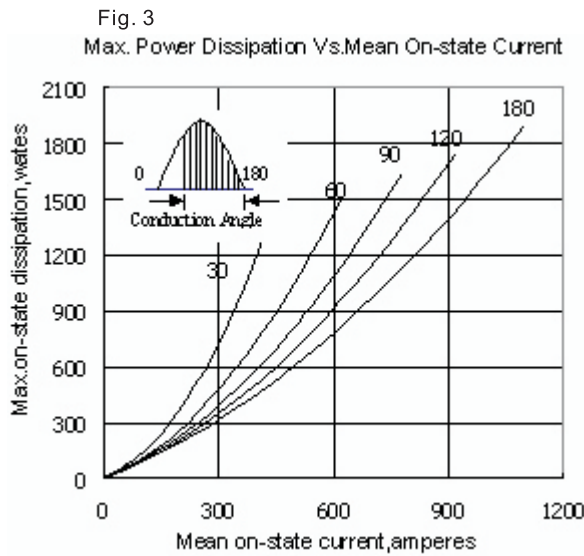
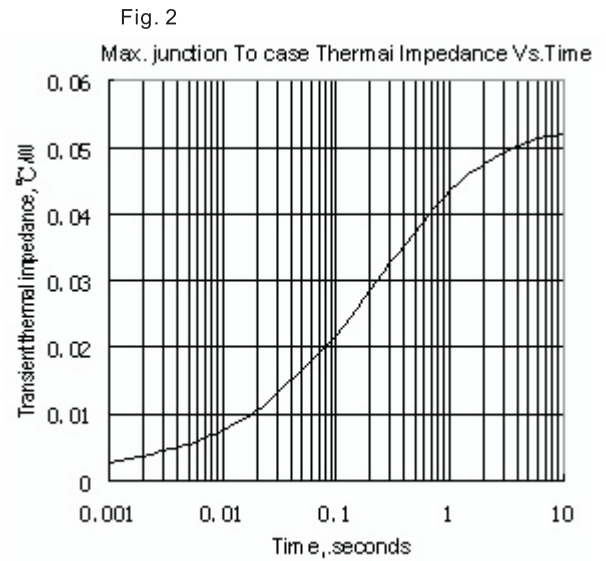
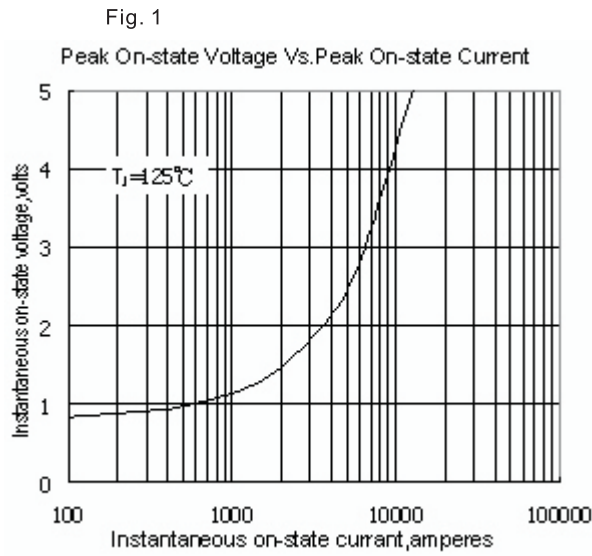


Fig. 7

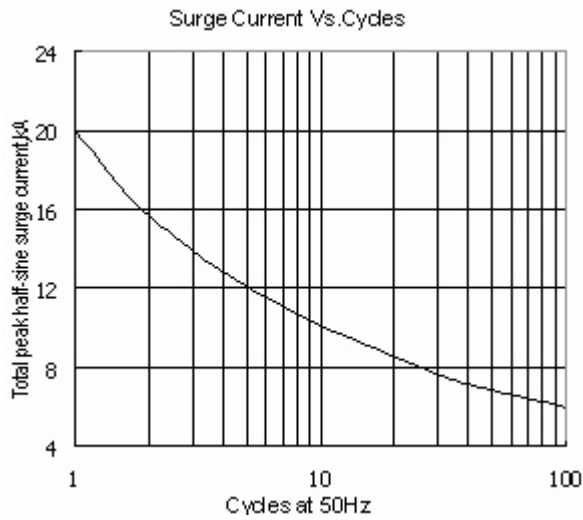


Fig. 8

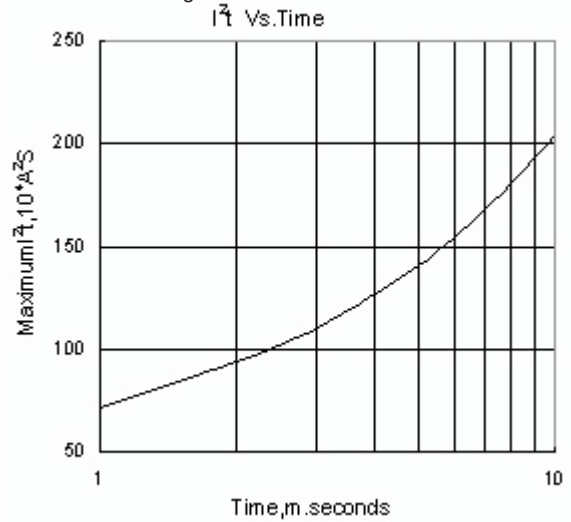


Fig. 9

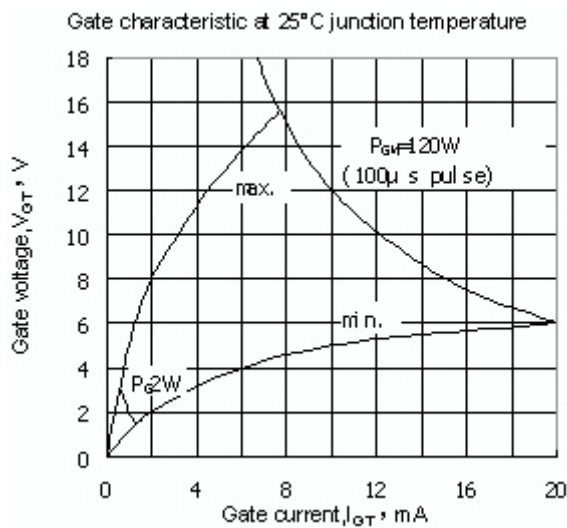


Fig. 10

