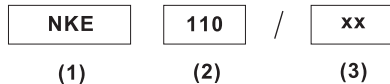


Diode Module

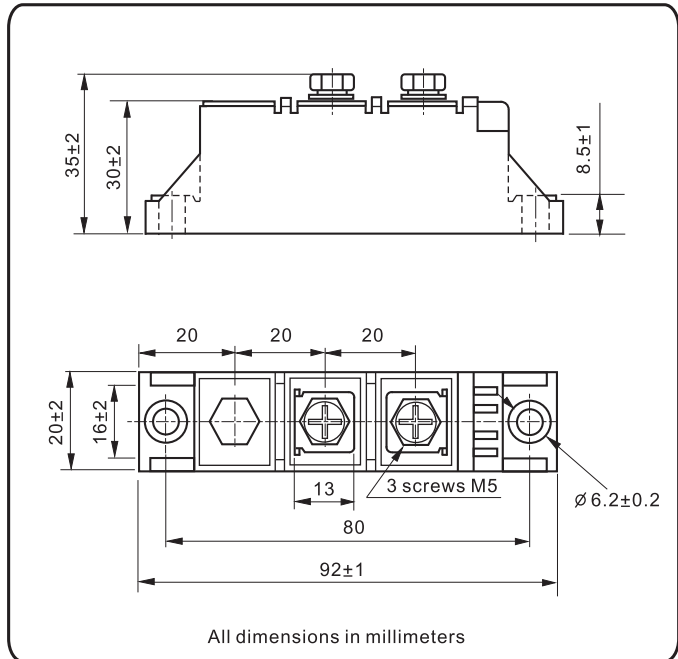
Features

1. NKE110 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_{RRM})



Electrical Characteristics

Parameter		Condition	Max. Value	Unit
$I_F(AV)$	Average forward current	180° half sine wave, 50 Hz Single side cooled, $T_c=100^\circ\text{C}$	110	A
$I_F(RMS)$	R.M.S. Forward current	Single side cooled, $T_c=85^\circ\text{C}$	173	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ ms}$ $V_{RMS}=V_{RRM} \times 1.1$	600 to 1600	V
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$	8	mA
I_{FSM}	Peak one-cycle surge (non-repetitive forward current)	10 ms duration $V_R=0.6 V_{RRM}$	2600	A
I_t^2	Max. Permissible surge energy		34.4	KA ² S
V_{FM}	Peak forward voltage drop	$I_{FM}=330\text{A}$, @ $T_c=25^\circ\text{C}$	1.45	V
$V_F(T_0)$	Forward conduction threshold voltage		0.80	V
r_t	Forward conduction slope resistance		1.74	mΩ
T_{stg}	Storage temperature range		-40 to 160	°C
$R_{th(J-C)}$	Thermal resistance	Single side cooled	0.35	°C/W
W_t	Approximate weight		160	g
T	Busbar to module (M 5)	A mounting compound is recommended. Torque should be rechecked after a period of 3 hours.	20	Kg-CM
	Module to heatsink (M 5)		30	Kg-CM

