

DIODE MODULE

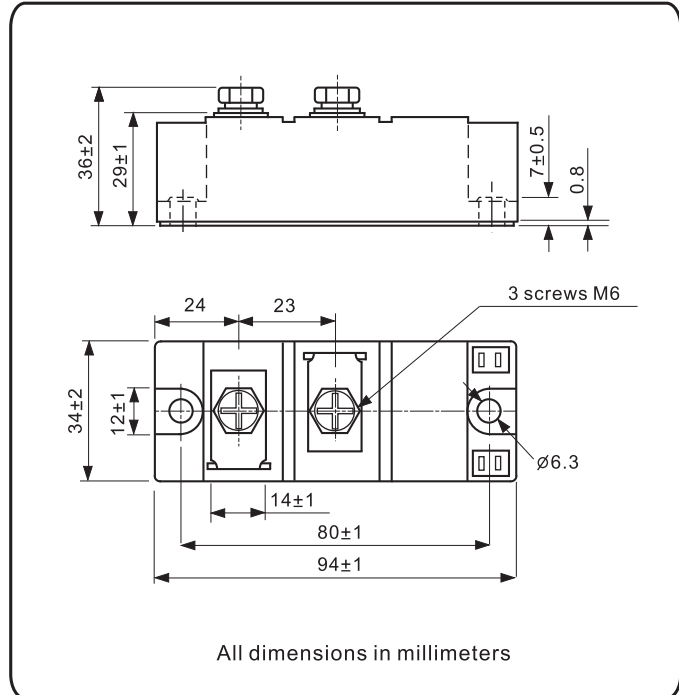
Features

1. NKE135 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

NKE	135	/	xx
(1)	(2)		(3)

- (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°C	135	A
I _{F(RMS)}	R.M.S. Forward current	Single side cooled , T _c = 85°C	212	A
V _{RRM}	Repetitive peak reverse voltage	t _p =10 ms V _{RMS} = V _{RRM} x 1.1	600 to 1600	V
I _{R(RM)}	Repetitive peak reverse current	V _R = V _{RRM}	12	mA
I _{F(SM)}	Peak one-cycle surge (non-repetitive forward current)	10 ms duration V _R = 0.6 V _{RRM}	3900	A
I _t ²	Max. Permissible surge energy		77.5	KA ² S
V _{FM}	Peak forward voltage drop	I _{FM} = 405A , @ T _c =25°C	1.38	V
V _{F(T0)}	Forward conduction threshold voltage		0.80	V
r _t	Forward conduction slope resistance		1.18	mΩ
T _{stg}	Storage temperature range		-40 to 160	°C
R _{th(J-C)}	Thermal resistance	Single side cooled	0.31	°C/ W
W _t	Approximate weight		320	g
T	Busbar to module (M 6)	A mounting compound is recommended. Torque should be rechecked after a period of 3 hours.	30	Kgf.cm
	Module to heatsink (M 6)		30	Kgf.cm

