

NK3D80..(R) Series Til

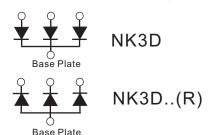
THREE PHASE DIODE MODULE

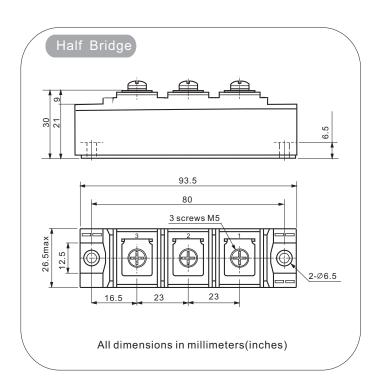
Features

- 1. NK3D80..(R) series Diode modules are designed for 3 phase rectification
- 2. Voltage rating up to 1600V
- 3. High surge capability

Ordering code NK3D 80 / 06 (R) (1) (2) (3) (4)

- (1) For Three Phase Diode modules
- (2) Maximum average forward current, A
- (3) Voltage code , V (code x 10 = / V_{RRM})
- (4) Blank for common cathode to base plate R- for common anode to base plate





Electrical Characteristics

Parameter		Condition	Max. Value	Unit
I _{F(AV)}	Average forward current	180° half sine wave , 50 Hz Single side cooled , T _C =115 °C	80	А
I _{F(RMS)}	R.M.S. Forward current	Single side cooled , T _C =115 °C	126	А
V _{RRM}	Repetitive peak reverse voltage	t _p =10 ms V _{RMS} = V _{RRM} x 1.1	200 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}	1600	А
l ² t	Max. Permissible surge energy		9.3	KA ² S
V _{FM}	Peak forward voltage drop	I _{FM} = 180A	1.6	V
VFO	Forward conduction threshold voltage		0.8	V
r _f	Forward conduction slope resistance		4.78	mΩ
T _{stg}	Storage temperature range		-40 to 150	°C
R _{th(J-C)}	Thermal resistance	Single side cooled	0.7	°C/W
W _t	Approximate weight		340	g
Т	Busbar to module (M 5)	A mounting compound is recommened. Torque should be rechecked after aperiod of 3 hours.	2.7	NM
	Module to heatsink (M 6)		2.7	NM



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