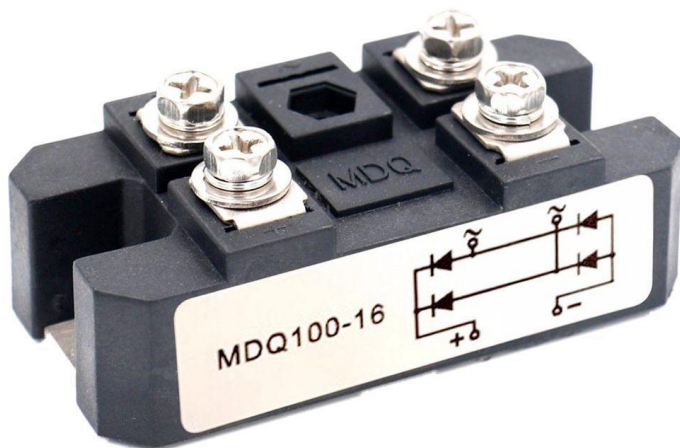




Mostek MDQ100A1600V (100A/1600V) FENG; przykręcany; 80x40x32mm; RoHS



Dane techniczne:

Nazwa: MDQ100A1600V

Typ elementu półprzewodnikowego: mostek prostowniczy

Napięcie wsteczne maksymalne: 1600V

Prąd przewodzenia: 100A

Wersja: przykręcany

Wymiary: 80x40x32mm

Single / three phase bridge rectifier

Features

- Chips isolated from soleplate electrically
- Seal complies with international standard
- Soldering type, excellent temperature control and power cycling capability
- Easy installation and convenient maintenance
- Max working temperature up to 150°C
- Compact size and light weight

Applications

- DC power supply of instruments
- Input rectifying power of PWM transducer
- DC motor excitation power supply
- Capacitor charging in softstart
- Electric drag and auxiliary current
- Invert welder
- Charging DC power supply

Technical parameter

MDQ(single phase)

Type	V_{RRM}	I_O	I_{FSM}	I^2t	I_{RRM}	V_{FM}/I_{FM}	V_{FO}	r_F	R_{jc}	T_{jm}	V_{iso}	Outlines Fig
	V	$T_C=100^\circ C$ A	KA	$A^2S \times 10^4$	mA	V/A	V	$m\Omega$	$^\circ C/W$	$^\circ C$	$^\circ C$	
MDQ50	600-1600	50	0.75	0.28	8	1.55/75	0.80	9.0	0.550	150	2500	21 23
MDQ75	600-1600	75	1.00	0.51	8	1.47/110	0.80	7.0	0.320	150	2500	25
MDQ100	600-1600	100	1.50	1.14	10	1.53/150	0.80	4.5	0.240	150	2500	27
MDQ150	600-1600	150	2.50	3.18	10	1.47/230	0.80	3.8	0.150	150	2500	29

MDS(three phase)

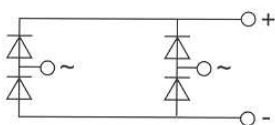
MDS50	600-1800	50	0.75	0.28	8	1.55/50	0.80	9.0	0.550	150	2500	24
MDS75	600-1800	75	1.00	0.51	8	1.47/75	0.80	7.0	0.320	150	2500	
MDS100	600-1800	100	1.50	1.14	10	1.53/100	0.80	4.5	0.240	150	2500	28
MDS150	600-1800	150	2.50	3.18	10	1.50/150	0.80	3.8	0.150	150	2500	
MDS175	600-1800	175	2.70	3.88	12	1.51/175	0.80	3.1	0.14	150	2500	30
MDS200	600-1800	200	3.00	4.59	12	1.54/200	0.80	2.8	0.12	150	2500	

Remark

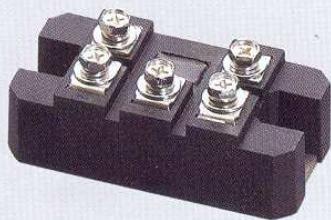
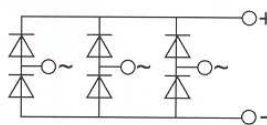
- $V_{RSM} = V_{RRM} + 200V$
- The other parameters in the table except V_{fm} , V_{iso} are the tested value under T_{jm}
- $I^2t = I^2_{TSM} \times T_w / 2$; $T_w =$ Sine and half wave current full-bottomed.
On the condition of 50Hz: $I^2t(10ms) = 0.005 I^2_{FSM}$ (A^2s)
- When working at 60Hz: $I_{FSM}(8.3ms) = I_{FSM}(10ms) \times 1.066$,
 $I^2t(8.3ms) = I^2t(10ms) \times 0.943$,
- V_{TO} : threshold voltage r_T : slope resistance, only used to calculate the power consumption and rated current under different temperatures

Circuit configurations

MDQ



MDS



Type and meanings

M □ □ □ □
1 2 3 4 5

- 1: M for "Module"
- 2: Letter code for subtype of module
D: rectifier diode
- 3: Designation of construction version of module
Q: Single phase
S: Three phase
- 4: Max.average current
- 5: Class according to V_{DRM} , V_{RRM}