



Features

- Isolated mounting base, 2500 V~
- International standard package
- Solder joint technology with increased power cycling capability
- Simple mounting and easy maintenance
- Space and weight saving
- Max junction temperature up to 150°C
- Low forward voltage drop

Typical Applications

- Supplies for DC power equipment
- DC supply for PWM inverter
- Battery DC power supplies
- Field supply for DC motors
- Soft start Capacitor Charging
- Electric drives and auxiliaries
- Inverter welder
- Input rectifier for switch mode power supplies(SMPS)

Notes

- All dataes apply to single diode
- All Thermal resistance apply to single diode

MDQ

Type	V _{RRM}	I _o	I _{FSM}	I ² t	I _{RRM}	V _{FM} /I _{FM}	V _{FO}	r _F	R _{th(j-c)}	T _{jm}	V _{iso}	Outline
	V	A	kA	kA ² S	mA	V/A	V	m.ohm	°C/W	°C	V	
MDQ50	600-1800	50	0.6	1.8	8	1.25/75	070	6.0	0.24	150	2500	26I28/30/32
MDQ75	600-1800	75	0.8	3.2	8	1.38/120	0.70	4.2	0.20	150	2500	26I28/30/32
MDQ100	600-1800	100	1.3	8.6	12	1.30/150	0.75	2.4	0.14	150	2500	34I36
MDQ150	600-1800	150	1.8	16.5	12	1.45/230	0.75	1.9	0.10	150	2500	34I36

MDS

Type	V _{RRM}	I _o	I _{FSM}	I ² t	I _{RRM}	V _{FM} /I _{FM}	V _{FO}	r _F	R _{th(j-c)}	T _{jm}	V _{iso}	Outline
	V	A	kA	kA ² S	mA	V/A	V	m.ohm	°C/W	°C	V(AC)	
MDS50	600-1800	50	0.40	0.80	8	1.20/50	0.70	6.0	0.30	150	2500	27I29/31/33
MDS75	600-1800	75	0.60	1.80	8	1.25/75	0.70	5.0	0.24	150	2500	27I29/31/33
MDS100	600-1800	100	0.80	3.20	8	1.30/100	0.70	4.5	0.20	150	2500	27I29/31/33
MDS150	600-1800	150	1.30	8.60	12	1.30/150	0.75	2.4	0.14	150	2500	35I37
MDS175	600-1800	175	1.50	11.5	12	1.35/175	0.75	2.2	0.12	150	2500	35I37
MDS200	600-1800	200	1.70	14.7	12	1.35/200	0.75	2.0	0.10	150	2500	35I37



Features

- Isolated mounting base, 2500 V~
- International standard package
- Solder joint technology with increased power cycling capability
- Simple mounting and easy maintenance
- Simple design, module and SCR rectifier bridge close 2 for one, small volume, light weight

Typical Applications

- Supplies for DC power equipment
- Field supply for DC motors
- Inverter welder

Notes

- All dataes apply to single thyristor or diode
- All Thermal resistance apply to single thyristor or diode

MDST

Type	Thyristor	V _{DRM} /V _{RRM}	I _o	I _{TSM}	I _{DRM} /I _{RRM}	I _{GT}	V _{GT}	I _H	V _{TM} /I _{TM}	V _{TO}	r _T	R _{th(j-c)}	T _{jm}	V _{iso}	Outline
	Diode	V _{RRM}	I _{FSM}	I _{RRM}	25°C			V _{FM} /I _{FM}	V _{FO}	r _F			°C	V(AC)	
		V	A	kA	mA	mA	V	mA	V/A	V	m.ohm	°C/W	°C	V(AC)	
MDST50	Thyristor	600-1800	50	0.73	25	100	2.5	150	1.55/150	0.85	4.3	0.80	125	2500	38
	Diode	600-1800	50	0.73	8	\	\	\	1.25/50	0.85	4.3	0.30	125		
MDST75	Thyristor	600-1800	75	0.91	25	100	2.5	150	1.60/230	0.85	3.1	0.40	125	2500	38
	Diode	600-1800	75	0.91	8	\	\	\	1.28/75	0.85	3.1	0.25	125		
MDST100	Thyristor	600-1800	100	1.18	30	100	2.5	150	1.65/300	0.85	2.3	0.36	125	2500	38
	Diode	600-1800	100	1.18	12	\	\	\	1.30/100	0.85	2.3	0.20	125		
MDST150	Thyristor	600-1800	150	1.45	45	100	2.5	150	1.70/450	0.85	1.6	0.20	125	2500	39
	Diode	600-1800	150	1.45	15	\	\	\	1.35/150	0.85	1.6	0.15	125		
MDST200	Thyristor	600-1800	200	1.85	50	100	2.5	150	1.75/600	0.85	1.2	0.12	125	2500	39
	Diode	600-1800	200	1.85	20	\	\	\	1.40/200	0.85	1.2	0.10	125		

