

80A

S

а

permanent current

Clamping voltage

SSR voltage clamping function (D1) not included therefore more adapted to SOM0 DC SSR range (SSR with built-in voltage protection D1)



e

r

Data given at Tambient=25°C and subject to modification without previous notice

GENERAL CHARACTERISTICS

PRELIMINARY

LABEL

Uemax

Uep

dUe/dt

Ie max

Uimp

Rio

Cio

Tstg

Tamb Tc

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INFO.

Ue=Uep

POWER CIRCUIT

DC mains max voltage
Non repetitive peak voltage
Max voltage rise
Max nominal current
Power output/case insulation
Isolation resistance
Isolation capacitance
Storage ambient temperature
Operating ambient temperature
Max. case temperature

CHARACTERISTIC

100°C LINE CIRCUIT CHARACTERISTICS (C1 & Rd)

VALUE

130VDC

200V

 $125 V/\mu s$

80A

4kV

 $1 {
m G} \Omega$

<8pF

-40°C -> +100°C-40°C -> +90°C

CHARACTERISTIC	LABEL	VALUE	INFO.
Decoupling capacitor	C1	$4.4\mu F \pm 20\%$	
Technology		Polyester	
Discharging resistor	Rd	$1 M\Omega$ / 0.5 W	
Discharging time constant	t	2s	

LOAD CIRCUIT CHARACTERISTICS (D2)

CHARACTERISTIC	LABEL	VALUE 1.2V 0.96 + 0.003 x Ie 80A		INFO.
Voltage drop during fly wheel	UD2 (VF)			@Ie=80A see fig. 4
Instantaneous power dissipation	\mathbf{P}_{D2}			
Max nominal average current	I _{D2av} (IFav)			
Max repetitive peak overload current	ID2peak (IFRM)	500A		Tpulse=25µs
Max non repetitive peak overload current	ID2peak (IFSM)	1000A		Tpulse=25µs
Max leakage current	-ID2 (IR)	0.1mA @ Tj=25°C	17mA @ Tj=Tjmax	@Uep @Tjmax
Recovering time	trr	190ns		I⊡2=1A,di/dt=50A/µs, Tc=25°C
Junction/case thermal resistance	Rthjc	0.35K/W		
Housing thermal resistance vertically mounted	Rthra	10K/W		@∆Tra=75°C
Housing thermal time constant	Tthra	10 minutes		@∆Tra=60°C
Maximum junction temperature	Tjmax	125	5°C	

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PRELIMINARY

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GENERAL INFORMATION

GENERAL VFORMATION	Mounting	2 screws (M4x12mm; tightening = 1.2N.m)	See mounting sheet		
	Screwdriver for connections	POZIDRIV2			
	tightening torque for connections	2 N.m			
	Insulated crimp terminals (round tabs, eyelet type)	M5			
	Display	Green LED (load supplied)			
III	Housing	UL94V0			
	Weight	80g			
	STANDARD				
STAN- DARDS	Standards	IEC60947-1			
	Protection level	IP20			
	Protection against direct touch	Yes			
	CE marking	Yes			
	UL, cULUS and VDE approvals	Pending			

DIMENSIONS AND ACCESSORIES

Fig. 8

DIMENSIONS (mm)







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