















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	MT3510 THRU MT3516
Overseas Part Number	MT3510 THRU MT3516
▶ Equivalent Part Number	MT3510 THRU MT3516





35A 1000V-1600V 三相玻璃钝化整流桥

■特征 Features

玻璃钝化芯片 Glass passivated chip 低反向漏电流 Low reverse leakage current 高耐浪涌电流能力 High surge current capability

■应用范围 Applications 变

频器

Frequency converter

工业电源

Industria power supply

■机械参数 Mechanical Data

本体:MT Case:**M**T

极性:极性符号铸在管体上

Polarity: Polarity symbols being marked on body

安装扭矩: 6.0kgf.cm

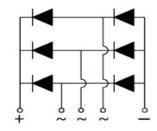
Mounting torque: 6.0kgf.cm max

重量:约18克

Weight: About18 grams

关键参数 KEY PARAMETERS				
参数 PARAMETER	数值 VALUE	单位 UNIT		
l f(AV)	35A			
Vrrm	10 00-1 600	V		
lfsm	500	А		
Package	MT			





■最大额定值 Maximum Ratings @ Ta = 25°C unless otherwisenoted

参数 PARAMETER			MT3510	MT3512	MT3516	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse	反向重复峰值电压 Maximum recurrent peak reverse voltage		1000	1200	1600	V
平均整流输出电流 Averagerectified outputcurrent	带散热片, T _C =85℃ with heatsink T _C =85℃	I _(AV)	35			А
最大正向浪涌电流, 8.3ms单半正弦波叠加在额定负载上 Peak surge forward current8.3ms single half sinewave superimposed on rated load		I _{FSM}	500			А
热容值, 1ms <t<8.3mstj=25℃, 单<br="">Rating for fusing1ms<t<8.3mstj-< td=""><td></td><td>I²t</td><td colspan="2">1037</td><td>A²s</td></t<8.3mstj-<></t<8.3mstj=25℃,>		I ² t	1037		A ² s	
结温 Junction temperature		Tj	-55 ~ +150			°C
存储温度 Storagetemperature		T _{STG}	-55 ~ +150			°C
绝缘耐压,端子与外壳之间外加较 Dielectric strengthterminals to ca		V _{dis}	V _{dis} 2.5			KV



■电性特性 Electrical Characteristics @ Ta = 25°C unless otherwise noted

参数	条件		符号	MT3510	MT3512	MT3516	单位
PARAMETER	CONDITIONS		SYMBOL				UNIT
正向峰值电压	I _F = 25 A		\/ -	1.1		1.2	V
Peak Forward Voltage			V F				
反向峰值电流	VR=VRRM,脉冲测试,单个二极管的 额定值	Tj=25°C			5		
	VR=VRRM , Pulse measurementRating of per diode	Tj=125°C	I _R		500		μΑ

■热特性 Thermal Characteristics @ Ta = 25°C unless otherwise noted

参数 PARAMETER	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
结到环境的热阻, 无散热片 Junction to ambienthermalresistance without heatsink	R _{θJA}	26	°C/W
结到管壳的热阻, 有散热片 Junction to casethermalresistance with heatsink	R _{ÐJC}	0.8	°C/W

■特性曲线 Characteristic Curve

FIG1 Denting Curve For Corput Rectified Cornect

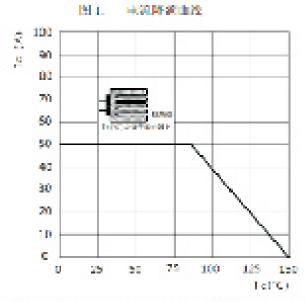
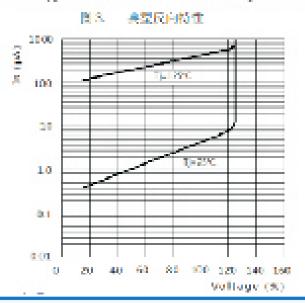
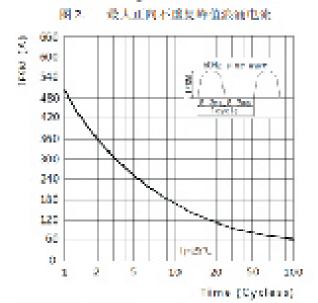


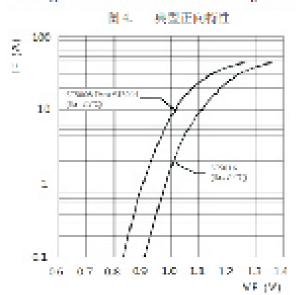
FIG.) Typical Reverse Characteristics Per Bridge Element



FRG2 Maximum Non-Repetitive Peak Forward Surge. Current Per Bridge Element

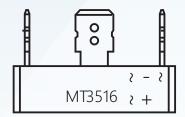


FR34. Typical Forward Characteristics For Bridge Element

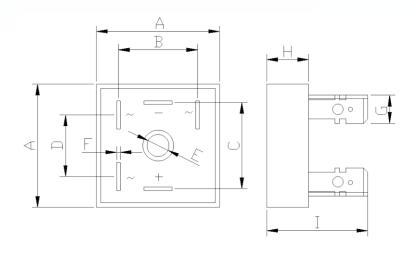




■标记图 Marking Diagram



■尺寸图 Dimension Drawing



Dina	Unit(mm)		Unit(inch)		
Dim.	Min.	Мах.	Min.	Max.	
А	28.00	29.00	1.102	1.142	
В	23.70	24.70	0.933	0.972	
С	23.70	24.70	0.933	0.6972	
D	15.50	16.50	0.610	0.650	
Е	4.50	5.50	0.177	0.217	
F	0.60	1.00	0.024	0.039	
G	6.10	6.50	0.240	0.256	
Н	9.50	10.50	0.374	0.413	



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