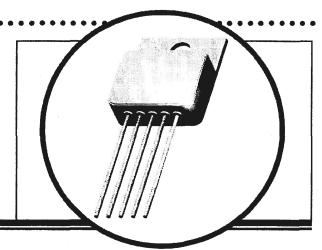
SILICON CARBIDE POWER SCHOTTKY RECTIFIER DIODE BRIDGE



SML010FBDH06

- 600V, 10A Full Bridge Rectifier Configuration
- High Temperature Operation Tj = 200°C
- Effective Zero Reverse and Forward Recovery
- High Speed Low Loss Switching
- High Frequency Operation
- High-Reliability Screening Options Available



ABSOLUTE MAXIMUM RATINGS (Per Die, T_c = 25°C unless otherwise stated)

VRRM	Repetitive Peak Reverse Breakdown Voltage	600V	
VRSM	Surge Peak Reverse Voltage 600V		
V_{DC}	DC Blocking Voltage	600V	
l _F (AVG)	Average Forward Current	10A	
IFSM	Non Repetitive Peak Forward Surge Current, t _p = 10µs	45A	
Tj	Junction Temperature Range	-55 to +200°C	
T_{stg}	Storage Temperature Range	-55 to +225°C	

THERMAL PROPERTIES (Per Die)

Symbols	Parameters	Max.	Units
R ₀ JC	Thermal Resistance, Junction To Case	2.0	°C/W

ELECTRICAL CHARACTERISTICS (Per Die, T_C = 25°C unless otherwise stated)

Symbols	Parameters	Test Conditions		Min.	Тур.	Max.	Units
V _F ⁽¹⁾	Forward Voltage	I _F = 10A		,	1.6	1.8	.,
			$T_{C} = 175^{\circ}C$		2.0	2.5	1
IR	Reverse Current	V _R = V _{RRM}			10	100	
		*	T _C = 175°C			1000	μA

DYNAMIC CHARACTERISTICS

Notes

(1) Pulse Width \leq 300us, $\delta \leq$ 2%

Semelab Limited reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.



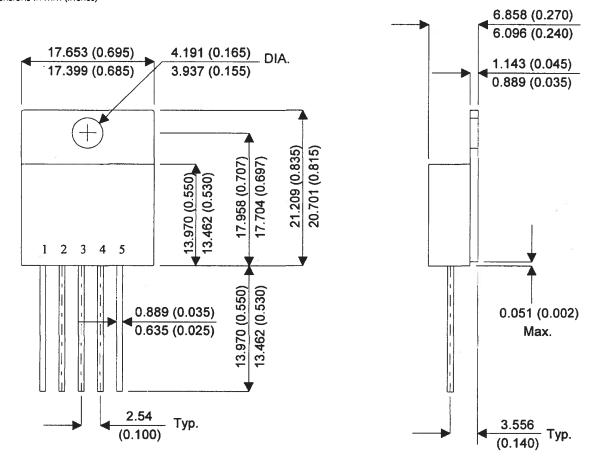
TT electronics plc.

ULTRAFAST RECOVERY POWER RECTIFIER DIODE SML010FBDH06



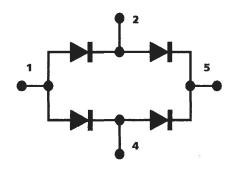
MECHANICAL DATA

Dimensions in mm (Inches)



TO258D (MO-078AA)

PIN 1	- Rectified DC		
PIN 2	+ AC		
PIN 3	N/C		
PIN 4	- AC		
PIN 5	+ Rectified DC		



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