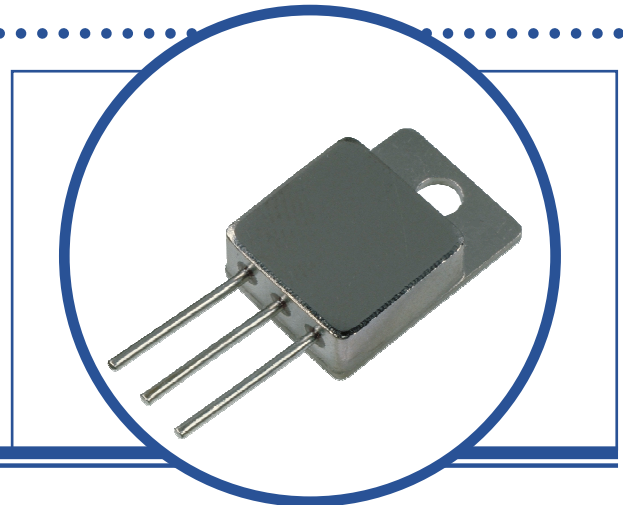


# HIGH EFFICIENCY DUAL SCHOTTKY RECTIFIER DIODE

## SML15UF06M3M.PDE

- Dual Schottky Rectifier Diodes
- Hermetic Metal Package (TO-254AA)
- Low Forward Voltage Drop
- Typical applications include Switching Power Supplies, Converters, Free Wheeling Diodes and Reverse Battery Protection



## ABSOLUTE MAXIMUM RATINGS (T<sub>J</sub> = 25°C unless otherwise stated)

V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	600V
V <sub>R</sub>	DC Reverse Voltage	600V
V <sub>RWM</sub>	Working Peak Reverse Voltage	600V
I <sub>F(AV)</sub>	Average Forward Current	15A
I <sub>FSM</sub>	Surge Peak Forward Current <small>(Surge applied at rated load conditions half wave single phase, 60Hz)= 5μs sine)</small>	150A
I <sub>FRM</sub>	Peak Rectified Forward Current	30A
T <sub>J</sub>	Junction Temperature Range	-55 to +175°C
T <sub>STG</sub>	Storage Temperature Range	-55 to +175°C

## ELECTRICAL CHARACTERISTICS (Per Side, T<sub>J</sub> = 25°C unless otherwise stated)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units	
V <sub>FM</sub> <sup>(1)</sup>	Forward Voltage Drop	I <sub>F</sub> = 10 A		1.27	1.60	V	
		I <sub>F</sub> = 15 A	T <sub>J</sub> = 150°C		1.41		1.75
					1.20		1.55
		I <sub>F</sub> = 20 A		1.54	1.95		
I <sub>R</sub> <sup>(1)</sup>	Reverse Leakage Current	V <sub>R</sub> = Rated V <sub>R</sub> T <sub>J</sub> = 150°C			10	uA	
					1000		
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = 1.0A, di/dt = 50A/us)			60	ns	

### Notes

(1) Pulse Width < 300μs, Duty Cycle < 2%

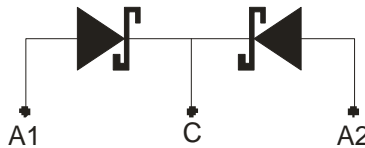
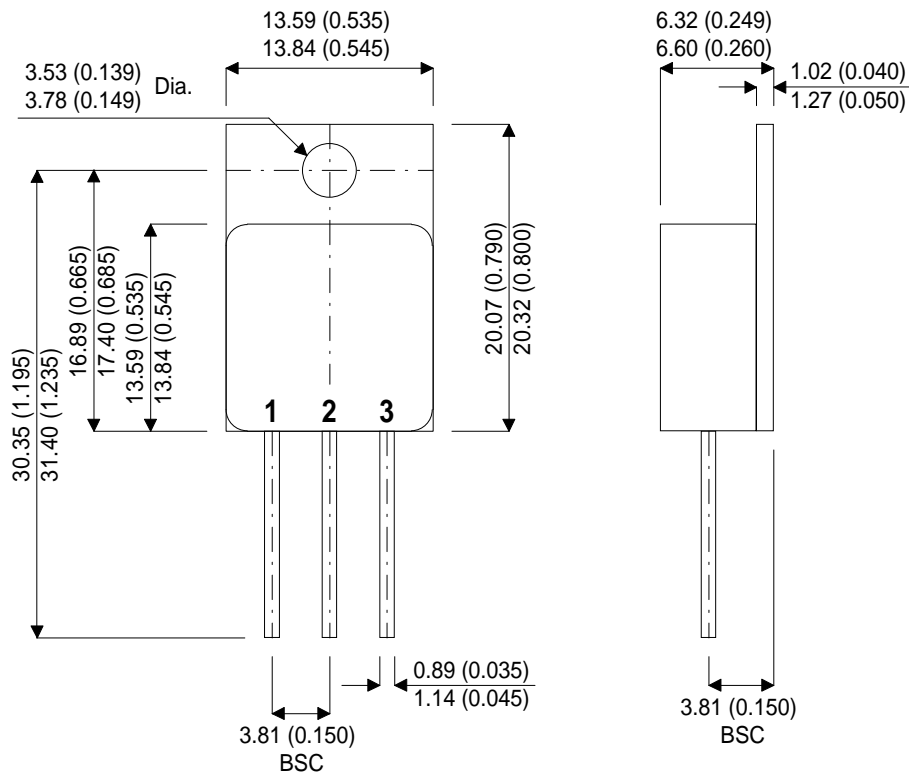
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## THERMAL PROPERTIES

Symbol	Parameter	Max	Units
$R_{\theta JC}$	Thermal Resistance Junction to Case (Per Diode)	1.4	$^{\circ}C/W$

## MECHANICAL DATA

Dimensions in mm (Inches)



### M3M (TO-254AA)

PIN 1 – Anode 1

PIN 2 – Cathode

PIN 3 – Anode 2

