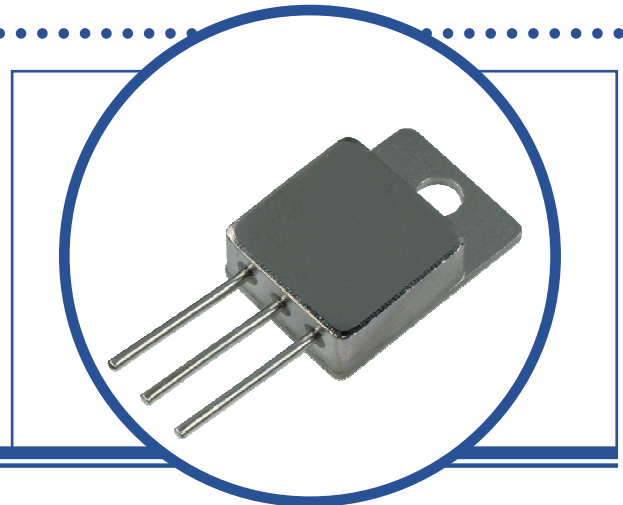


HIGH EFFICIENCY DUAL SCHOTTKY RECTIFIER DIODE

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_J = 25°C unless otherwise stated)

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

ELECTRICAL CHARACTERISTICS (Per Side, T_J = 25°C unless otherwise stated)

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

Notes

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

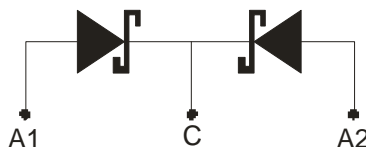
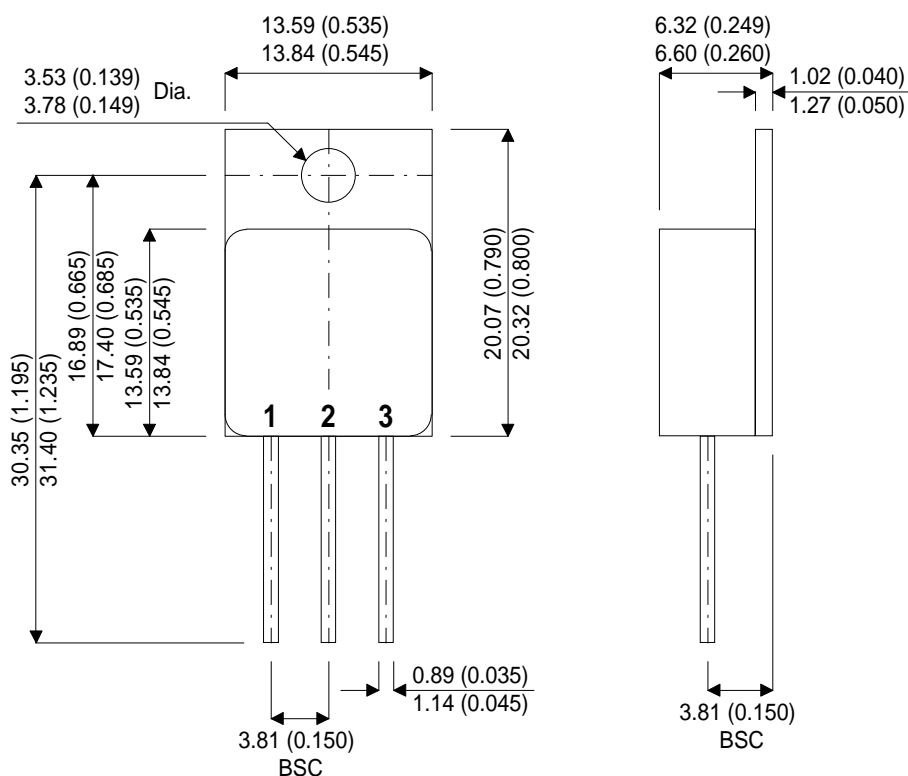
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THERMAL PROPERTIES

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

