



**THE DATASHEET OF
ESMIT-4180/A**



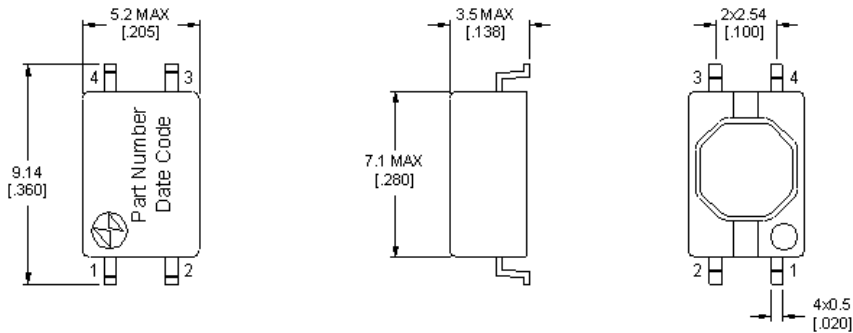
ESMIT-4180/A type CBM5D33



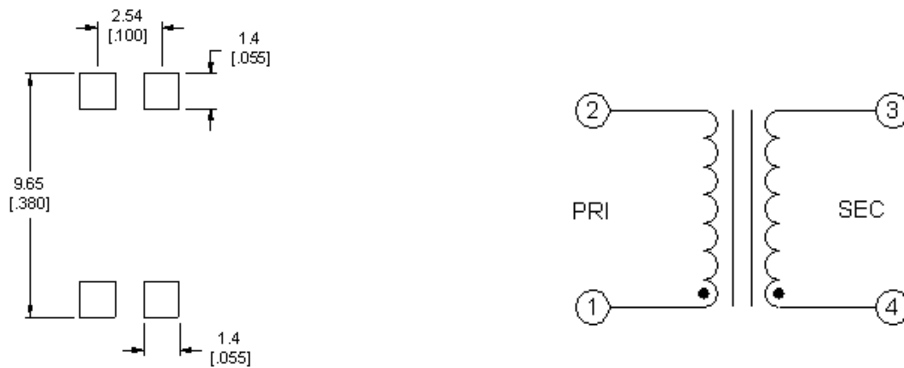
Features:

- Reference Design in Freescale HV/EV Battery Management System MC33771 and MC33664
- Automotive and Industrial Applications
- Low Profile
- Qualified to AEC-Q200
- High Voltage Isolation 3750Vrms
- Operating Temperature: -40°C to +105°C

Dimensions – mm [inch]



Recommended PCB Pad Layout - mm [inch]



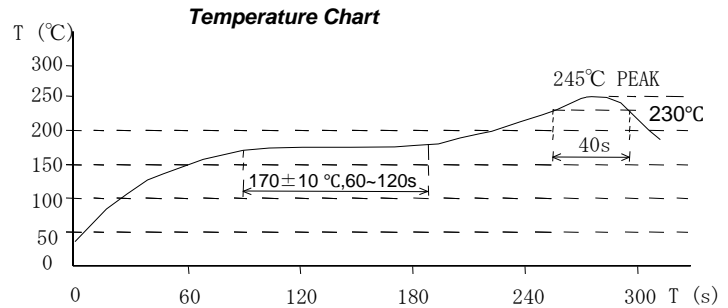
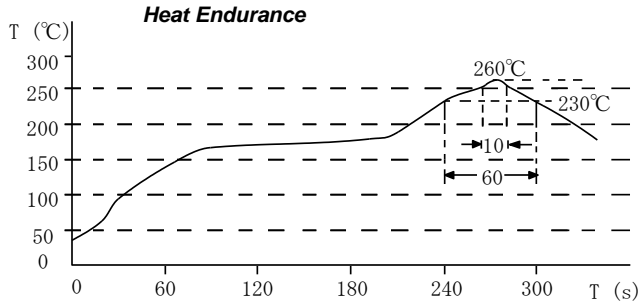
Electrical Characteristics @ 25 °C

PARAMETER	CONDITIONS	VALUE	UNITS	TOLERANCE
Inductance (OCL)	100 kHz, 0.1 V, (1-2)	120	μH	Min.
Turns Ratio (T/R)	(1-2):(4-3)	1:1	N/A	± 2%
DC Resistance (DCR)	(1-2)	0.25	Ω	Max.
	(4-3)	0.25	Ω	Max.
Dielectric Breakdown Isolation (equivalent to 1 min, 3000 Vrms)	1 sec, (1-4)	3750	Vrms	Min.
Operating Temperature		-20 to +105	°C	Nom.

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Soldering Reflow Profile



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