

SMT GATE DRIVE TRANSFORMER

Ruggedized



- Operating & Storage Temperature: -55°C to +130°C
- RoHS-5 Compliant
- Lead Finish: Sn63/Pb37
- Max Reflow Temperature: 235°C
- Moisture Sensitivity Level: 3

Electrical Specifications 25°C

Part Number	Turns Ratio (Pri:Sec ±2%)	Pri-Sec Insulation	MAX ² V*µsec	Primary Inductance (µH MIN)	Leakage Inductance (µH MAX)	DCR Primary (ΩH MAX)	DCR Secondary (ΩH MAX)
PL2243	2.5:1:1	1500Vrms	47	1486	0.80	1.15	0.425

Note: 1.) Add suffix "T" indicates Tape and Reel Packing (i.e. PL2243 becomes PL2243T)

2.) The maximum volt-µsec limits the peak flux density to 2800 Gauss when used in a unipolar drive application.

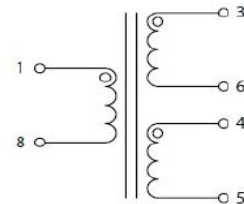
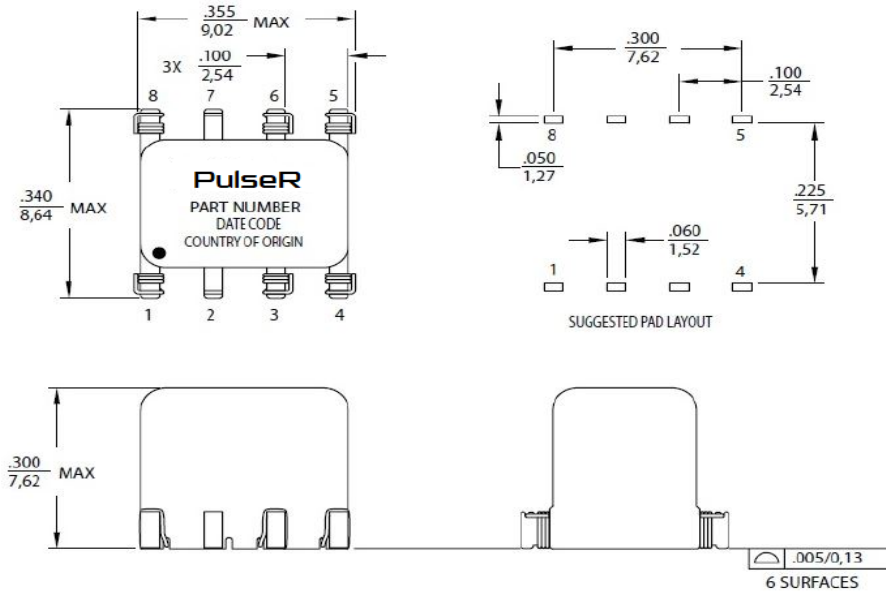
For bi-polar drive applications, a maximum volt-µsec of two times this rating is acceptable (i.e. 2*(volt*µsec rating)

$Volt * \mu sec = (voltage \text{ applied to the primary}) * dutycycle / Frequency = V * \alpha / Freq_Hz = V * \mu sec$

Mechanical

Schematic

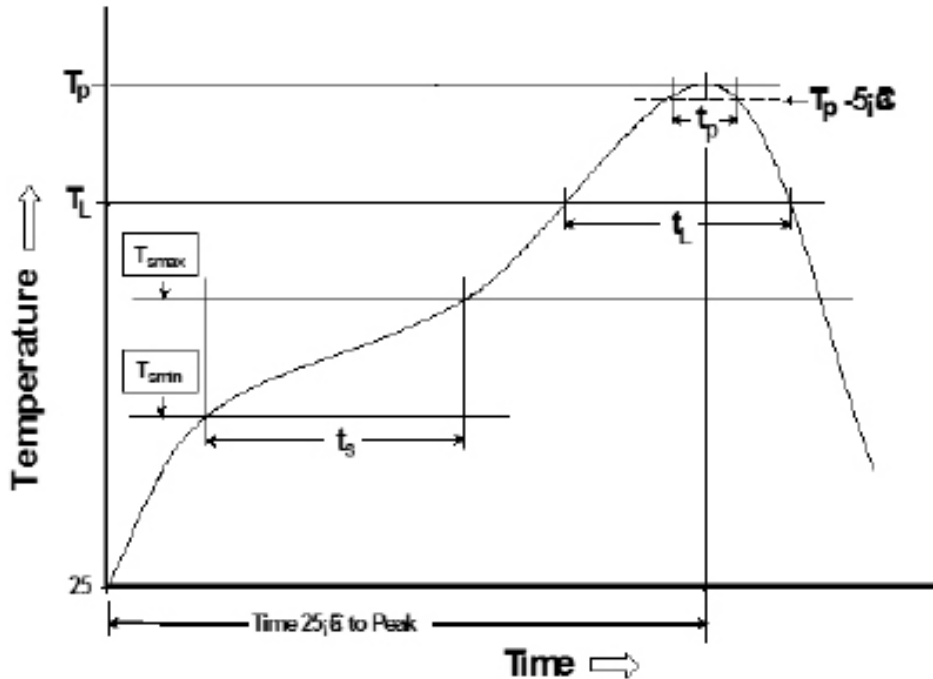
PL2243



Weight 120 grams
 Tube 40/tube
 Tape & Reel 600/reel

Dimensions: Inches
 mm
 Unless otherwise specified, all tolerances are ± .010
 0.25

Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_s (s)	t_L (s)	t_p (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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