GATE DRIVE TRANSFORMER

Ruggedized





- Surface Mount Package Pick and Place Compatible
- Ambient Operating Temperature: -55°C to +125°C°
- Storage & Operating Temperature: -55°C to +125°C
- Operating Frequency: 50kHz and Up
- >1500Vpc Isolation between Gate and Drive
- Basic Insulation (1.4mm creepage/clearance) and functional available
- Moisture Sensitivity Level: 1

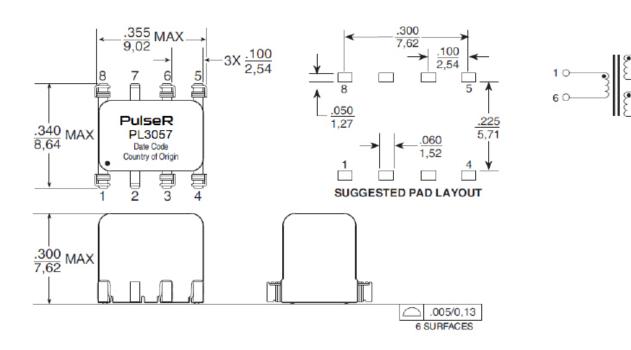
Electrical Specifications 25°C										
Part ^{3,4} Number	Turns Ratio	Pri-Sec Insulation	Max ¹ (V*µsec)	Primary Inductance (µH MIN)	Leakage ² Inductance	DCR Primary (Ω MAX)	$\begin{array}{c} \textbf{DCR Secondary} \\ (\Omega \ \text{MAX}) \end{array}$			
PL3057	1:1	1500 Vdc	27.2	1200	0.50	.91	0.91			

Notes:

- 1. The maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt-µsec of two times this rating is acceptable (ie: 2* (volt*µsec rating) Volt*µsec = (voltage applied to the primary) * dutycycle / Frequecy = V * alpha / Freq_Hz = V * µsec
- Leakage inductance is measured at primary terminals with all secondaries shorted.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL3057 becomes PL3057T). Pulse complies to industry standard tape and reel specification EIA481.
- 4. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
- 5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

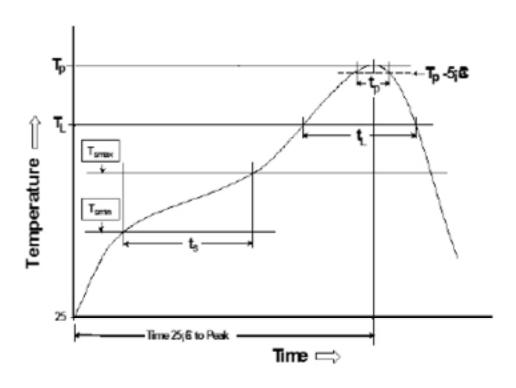
Mechanical Schematic

PL3057





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



T _{SMIN} (°C)	T _{SMAX} (°C)		T _P (°C MAX)	t ₈ (5)	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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