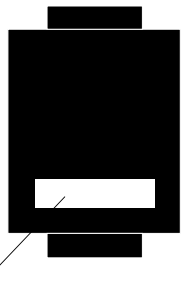
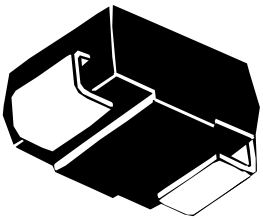
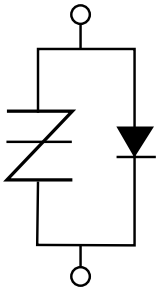
TECCOR® ELECTRONICS







DO-214AA
SLIC Protectors

SIDACtor®
Solid State Overvoltage Protection

DO-214AA SLIC Protector Data Sheet

Product Description

Teccor's SLIC protectors are unidirectional solid state protection devices constructed with a SIDACtor® transient voltage suppressor (TVS) and integrated diode.

Used to protect SLIC IC's from being damaged during transient voltage activity, Teccor's SLIC protectors help line cards meet various regulatory requirements including: GR 1089, ITU K.20, K.21, & K.45, UL & IEC 60950, and FCC Part 68.

ISO 9001
TECCOR ELECTRONICS

Electrical Parameters

Part Number*	V_{DRM} Volts	V_S Volts	V_T Volts	V_F Volts	I_{DRM} µAmps	I_S mAmps	I_T Amps	I_H mAmps	C_O pF
P0641S_	58	77	5	5	5	800	1	120	70
P0721S_	65	88	5	5	5	800	1	120	70
P0901S_	75	98	5	5	5	800	1	120	70
P1101S_	95	130	5	5	5	800	1	120	70

* For individual “SA”, “SB” and “SC” surge ratings, see table below.

Notes:

- All measurements are made at an ambient temperature of 25°C. I_{PP} applies to -40°C through +85°C temperature range.
- I_{PP} is a repetitive surge rating and is guaranteed for the life of the product.
- V_{DRM} is measured at I_{DRM}.
- V_S and V_F are measured at 100V/µs.
- Special voltage (V_S & V_{DRM}) and holding current (I_H) requirements are available upon request.
- Off-state capacitance is measured at 1MHz with a 2 volt bias and is a typical value for “SA” product. “SC” capacitance is approximately 2x the listed value.
- Parallel capacitive loads may affect electrical parameters.

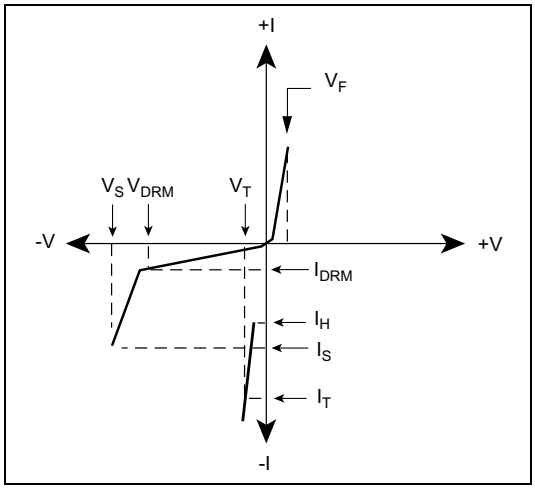
Surge Ratings (Preliminary Data)

Series	I_{PP} 2x10µs Amps	I_{PP} 8x20µs Amps	I_{PP} 10x160µs Amps	I_{PP} 10x560µs Amps	I_{PP} 10x1000µs Amps	I_{TSM} 60Hz Amps	di/dt Amps/µs
A	200	150	100	60	50	20	500
B	250	250	150	100	80	30	500
C	500	400	200	120	100	50	500

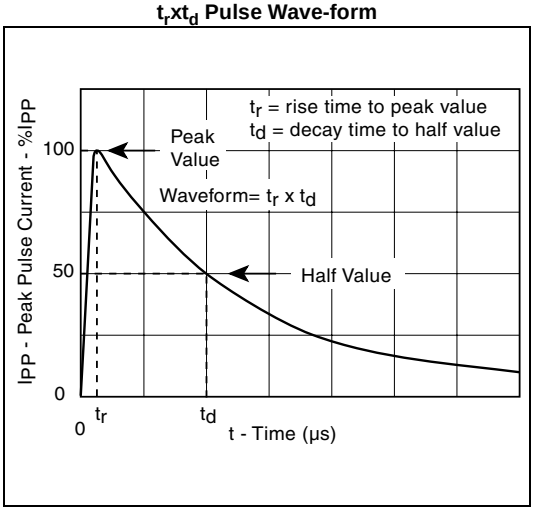
Thermal Considerations

Package	Symbol	Parameter	Value	Unit
DO-214AA	T_j	Operating Junction Temperature Range	-40 to +150	°C
	T_s	Storage Temperature Range	-65 to +150	°C
	T_c	Maximum Case Temperature	+115	°C
	$R_{\theta jc}$	Thermal Resistance: junction to case	+23	°C/W
	$R_{\theta ja}$	Thermal Resistance: junction to ambient	+90	°C/W

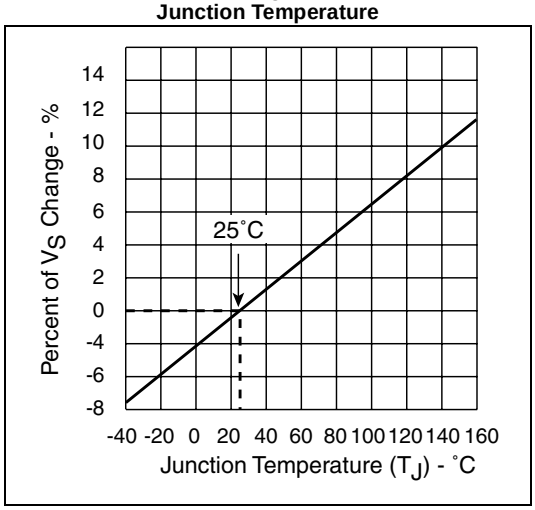
V-I Characteristics



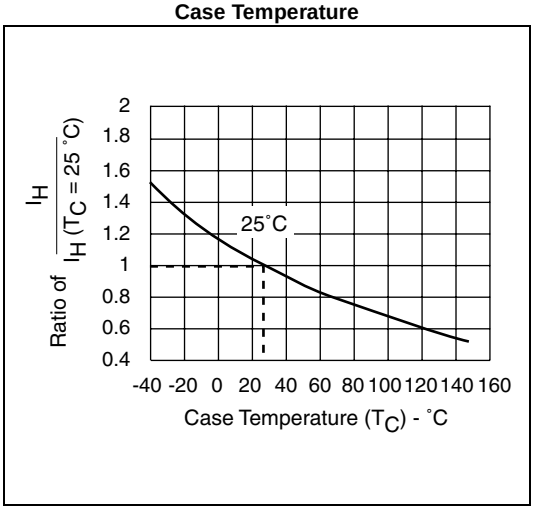
t_rxt_d Pulse Wave-form



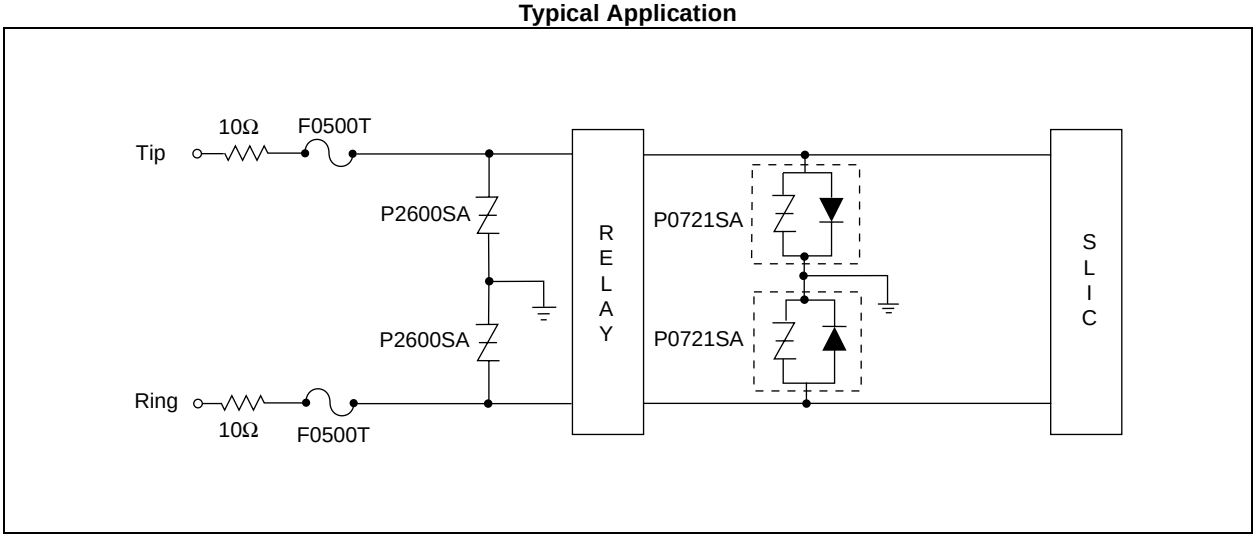
Normalized V_S Change vs. Junction Temperature



Normalized DC Holding Current vs. Case Temperature

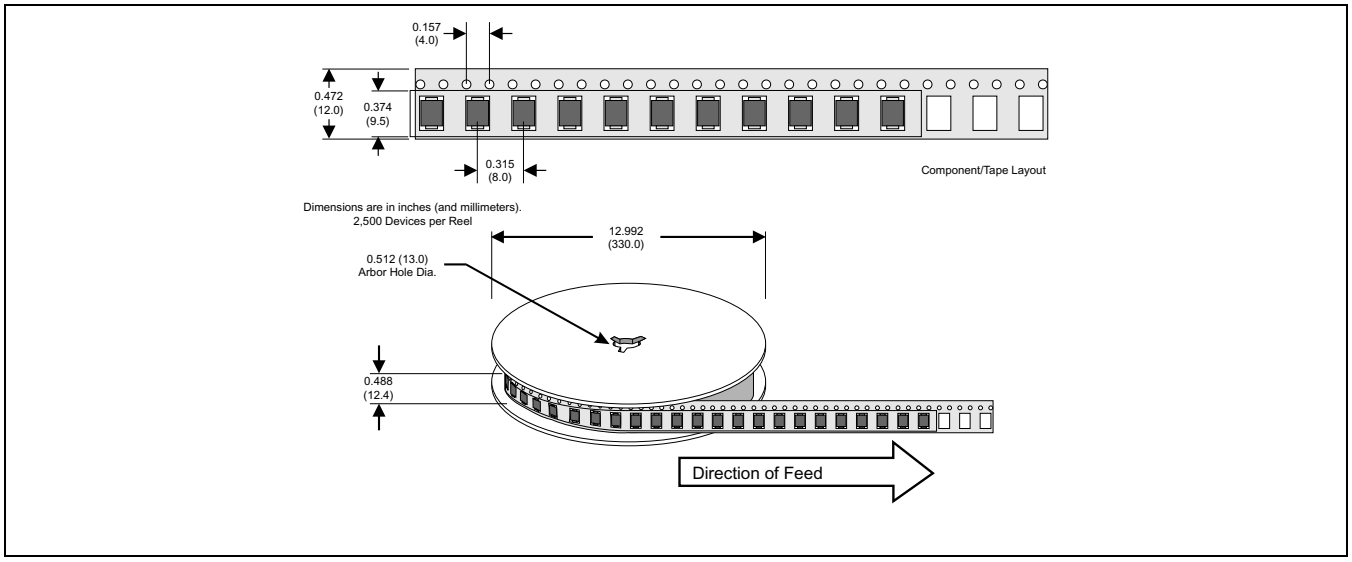


Typical Application

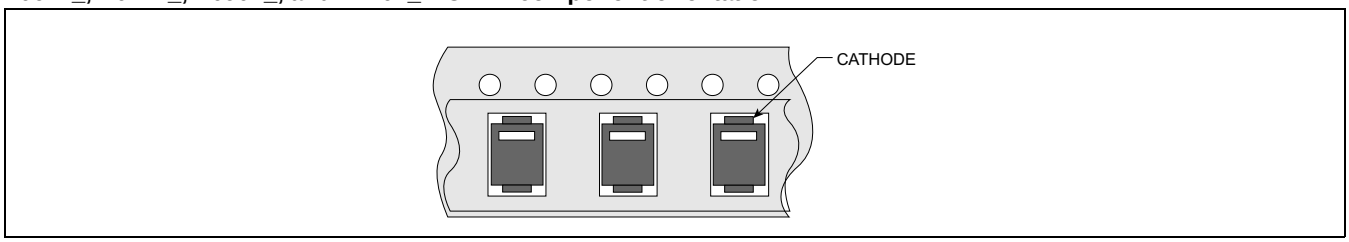


DO-214 Tape and Reel

Tape and reel meets all specifications as set forth in EIA-481-1.
Standard reel pack quantity is 2500.



P0641_, P0721_, P0901_, and P1101_ DO-214 component orientation



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Data Sheet: SLIC Protector - 050101

An Invensys company