Type RASL
Resettable Fuse (PTC's)
Battery Strap – Lo Rho

www.optifuse.com (619) 593-5050

Application:

Rechargeable battery packs
Lithium cell and battery packs

Product Features:

Lo Rho product – ultra low normal operating resistance
Low profile, Solid State

Operation Current: 1.4A ~ 7.0A
Maximum Voltage: 6V
Temperature Range: -40ºC to 85ºC

Agency Standards and Listings:

Electrical Characteristics (23ºC)

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance Tolerance		
						Current	Time	R_{MIN}	R_{MAX}	$R1_{MAX}$
	I_H, A	I_T, A	V_{MAX}, Vdc	I_{MAX}, A	Pd, W	Amp	Sec	Ω	Ω	Ω
RASL-140	1.4	3.6	6	50	1.0	7.0	3.0	0.010	0.020	0.0350
RASL-190	1.9	4.9	6	50	1.0	9.5	3.0	0.006	0.014	0.0240
RASL-250	2.5	8.0	6	50	1.0	12.5	3.0	0.006	0.012	0.0200
RASL-270	2.7	8.1	6	50	1.0	13.5	2.0	0.006	0.012	0.0180
RASL-310	3.1	8.8	6	50	1.0	15.5	3.0	0.004	0.010	0.0160
RASL-370	3.7	9.0	6	50	1.0	18.5	5.0	0.003	0.008	0.0140
RASL-450L	4.5	9.5	6	50	1.0	22.5	3.0	0.0025	0.0055	0.0100
RASL-500	5.0	10.0	6	50	1.0	25.0	3.0	0.0015	0.0050	0.0090
RASL-700	7.0	14.0	6	50	1.0	25.0	3.0	0.0010	0.0045	0.0080

I_H = Hold Current – Maximum current at which the device will not trip at 23ºC still air.
I_T = Trip Current – Minimum current at which the device will always trip at 23ºC still air.
V_{MAX} = Maximum voltage device can withstand without damage at it's rated current.
I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V max).
Pd = Maximum power dissipated from device when in the tripped state in 23ºC still air environment.
R_{MIN} = Minimum device resistance at 23ºC.
$R1_{MAX}$ = Maximum device resistance at 23ºC, 1 hour after tripping.

Physical Specifications:

Lead Material: 0.1mm nominal thickness, quarter hard nickel
Insulating Material: Polyester tape

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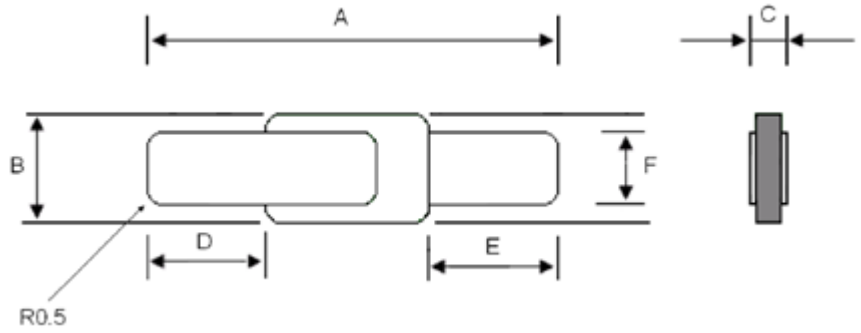
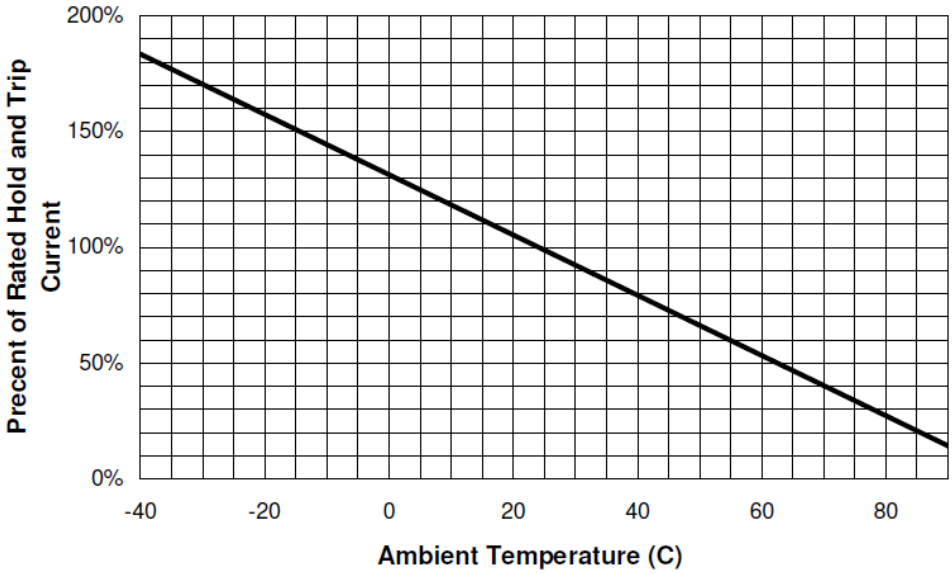
RASL Product Dimensions (millimeters)



Part Number	A		B		C		D		E		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
RASL-140	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-190	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-250	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-270	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-310	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-370	9.20	10.80	3.15	3.45	0.55	1.10	2.15	3.25	2.15	3.25	2.20	2.40
RASL-450L	20.50	21.50	3.50	3.90	0.55	1.10	7.00	8.00	7.00	8.00	2.40	2.60
RASL-500	20.50	21.50	3.50	3.90	0.55	1.10	7.00	8.00	7.00	8.00	2.40	2.60
RASL-700	21.00	23.00	3.50	3.90	0.55	1.10	4.60	6.60	4.60	6.60	2.90	3.10

Thermal Derating Curve – RASL Series



Note: All specifications subject to change without notice.

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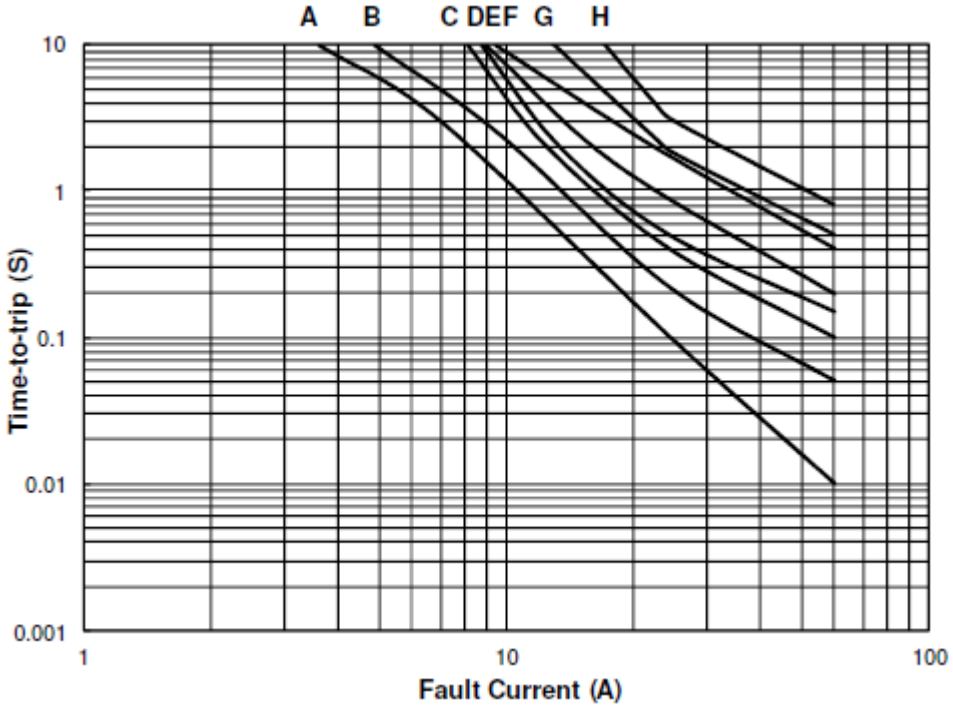
Typical Time-To-Trip at 23ºC

A = RASL-140
B = RASL-190
C = RASL-250
RASL-270
D = RASL-310
E = RASL-370
F = RASL-450L
G = RASL-500
H = RASL-700



Standard Packaging: 500 Pcs/Bag

Warning: 	-Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame. -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated. -Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.