



SSRT Series

"Hockey Puck" Solid State Relay

File E29244

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- Standard "hockey puck" package.
- LED indicator.
- Floating terminal design.
- Triac outputs.
 10A & 25A rms versions.
 AC & DC input versions.
- 4000V rms isolation.
- Cover design with anti-rotation barrier

Engineering Data

Form: 1 Form A (SPST-NO). Duty: Continuous. Isolation: 4000V rms minimum, input - output. Temperature Range: Storage: -30°C to +100°C Operating Temperature: -30°C to + 80°C Case Material: Plastic, UL rated 94V-0. Case and Mounting: Refer to outline dimension. Termination: Refer to outline dimension. Approximate Weight: 3.5 oz. (98g).

Ordering Information

	Typical Part Number	SSRT	-240	D	10
1. Basic Series: SSRT = "hockey puck" triac output solid state relay					
2. Line Voltage: 240 = 24 - 280 VAC					
3. Input Type & Voltage: A = 90 - 280 VAC linear D = 3 - 32 VDC constant current					
4. Maximum Switching Rating: $10 = .1 - 10A$ rms, mounted to heatsink $25 = .1 - 25A$ rms, mounted to heatsink					

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

SSRT-240A10 SSRT-240D10 SSRT-240A25 SSRT-240D25

Input Specifications		
Parameter	AC Input	DC Input
Control Voltage Range VIN	90 - 280VAC	3 - 32VDC
Must Operate Voltage VIN(OP) (Min.)	90VAC	3VDC
Must release Voltage VIN(REL) (Min.)	10VAC	1VDC
Input Current (Max.)	25mA	20mA

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



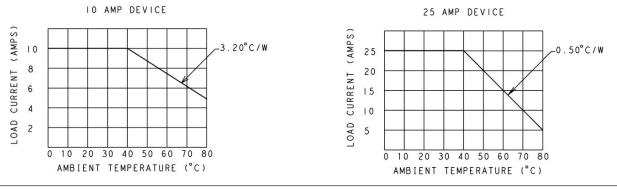
SSRT Series (Continued)

Output Specification (@ 25°C, unless otherwise specified)

Parameter	Conditions	Units	SSRT-240A10 SSRT-240D10	SSRT-240A25 SSRT-240D25	
Load Voltage Range VL		V rms	24 - 280		
Repetitive Blocking Voltage (Min.)		V peak	600		
Load Current Range I⊥*	Resistive	Arms	.1 - 10	.1 - 25	
Single Cycle Surge Current (Min.)		A peak	100	260	
Leakage Current (Off-State) (Max.)	f = 60 Hz. VL = Nom (120 or 240 V rms)	mA rms	5		
On-State Voltage Drop (@rated current)	I∟ = Max.	V rms	1.6	1.6	
Static dv/dt (Off-State) ((Min.)		V/µs	400	500	
Thermal Reisitance, Junction to Case (ReJ-c) (Max.)		°C/W	2.4	1.7	
Turn-On Time (Max.)	f = 60 / 50 Hz.	ms	8.3/10 of DC input types, 40 for AC input types		
Turn-Off Time (Max.)	f = 60 / 50 Hz.	ms	8.3/10 of DC input types, 80 for AC input types		
I ² T Rating	t = 8.3 ms	A ² Sec.	144	340	
Load Power Factor Rating	I∟= Max.		0.5 - 1.0		

* See Derating curve

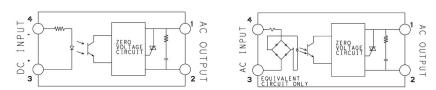
Electrical Characteristics (Thermal Derating Curves)



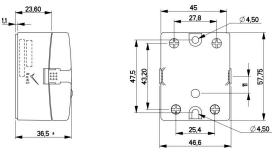
Heatsink Recommendations

- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at less than 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch flatness across mating area), un-painted surface which is clean and free of oxidation.
- An even coating of thermal compound (Dow Corning DC340 or equivalent) should be applied to both the heatsink and module mounting surfaces and spread to a uniform depth of .002" to eliminate all air pockets.
- The module should be mounted to the heatsink using two #8 screws.

Operating Diagrams



Outline Dimensions



* OVERALL HEIGHT DIMENSION INCLUDES WITH CLEAR COVER DIMENSION IN mm

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Mouser Electronics

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TE Connectivity: SSRT-240A25