





SSRT Series

"Hockey Puck" **Solid State Relay**

c %us 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
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



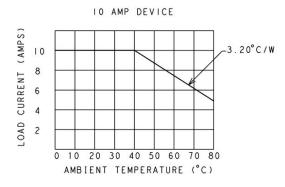
SSRT Series (Continued)

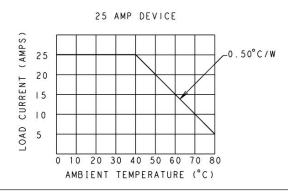
Output Specification (@ 25°C, unless otherwise specified)

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 IL*	Resistive	A rms	.1 - 10	.1 - 25	
Single Cycle Surge Current (Min.)		A peak	100	260	
Leakage Current (Off-State) (Max.)	f = 60 Hz. V _L = Nom (120 or 240 V rms)	mA rms	5		
On-State Voltage Drop (@rated current)	IL = Max.	V rms	1.6	1.6	
Static dv/dt (Off-State) ((Min.)		V/µs	400	500	
Thermal Reisitance, Junction to Case (Reu-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	IL = Max.		0.5 - 1.0		

^{*} See Derating curve

Electrical Characteristics (Thermal Derating Curves)

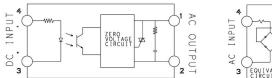


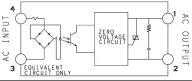


Heatsink Recommendations

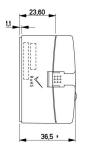
- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at less than 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch 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.

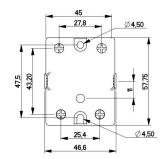
Operating Diagrams





Outline Dimensions





^{*} OVERALL HEIGHT DIMENSION INCLUDES WITH CLEAR COVER DIMENSION IN mm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: