

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SF161 THRU SF166

TECHNICAL SPECIFICATIONS OF SUPER FAST RECTIFIER VOLTAGE RANGE - 50 to 400 Volts CURRENT - 16 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * Super fast switching speed
- * High reliability
- * Good for switching mode circuit

MECHANICAL DATA

* Case: Molded plastic

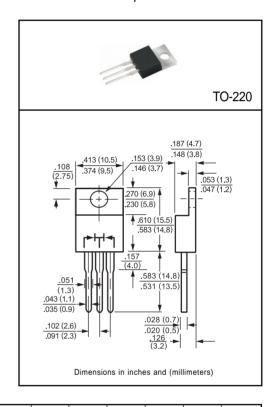
* Epoxy: UL 94V-0 rate flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

* Mounting position: Any * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



VRRM VRMS VDC	50 35 50	100 70	150 105	200 140	300	400	Volts
		70	105	140			
VDC	50			140	210	280	Volts
		100	150	200	300	400	Volts
lo	16					Amps	
IFSM	IFSM 150					Amps	
VF	1.0 1.35				35	Volts	
	10						uAmps
IR	500						
trr	35			50		nSec	
RθJC	3					°C/W	
Cı	50 30			0	pF		
	-65 to + 150						
	lr trr RøJC	IR trr R0JC	IR trr 35 RθJC	IR 1 50 trr 35 RØJC 3	IR 10 500 trr 35 ReJC 3	IR 10 500 trr 35 50 ReJC 3	IR 10 500 trr 35 50 ReJC 3

- NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A
 - 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 - 3. Suffix "A" =Common Anode.

RATING AND CHARACTERISTIC CURVES (SF161 THRU SF166)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

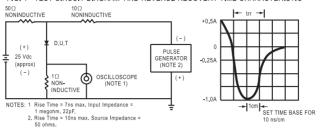


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

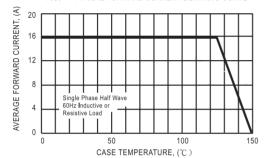


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

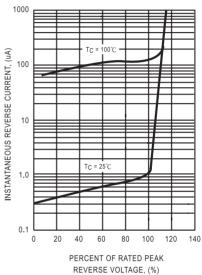


FIG.4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

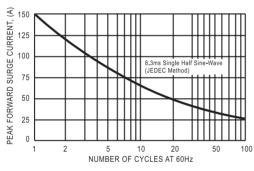


FIG.5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

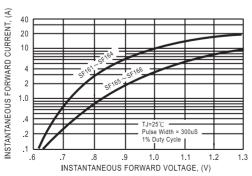
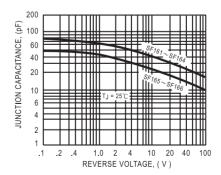


FIG.6 - TYPICAL JUNCTION CAPACITANCE





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