

1N1183 THRU 1N1190 SPD1192 AND SPD1194

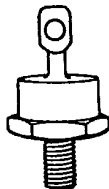
35 AMP

STANDARD RECOVERY RECTIFIERS 50-1000 VOLTS



14830 Valley View Avenue
La Mirada, California 90638
(213) 921-9660
TWX 910-583-4807
FAX 213-921-2396

CASE STYLE DO-5



FEATURES

- NEW HIGH VOLTAGE UP TO 1000 VOLTS
- POPULAR DO-5 OUTLINE
- RATINGS UP TO 175°C JUNCTION TEMPERATURE
- LOW THERMAL IMPEDANCE
- FOR REVERSE POLARITY ADD "R" TO PART NUMBER
- AVAILABLE IN FAST RECOVERY VERSIONS

MAXIMUM RATINGS

Rating		Symbol	Value	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage	1N1183	$V_{RM} (rep)$	50	Volts
	1N1184		100	
	1N1185	V_R	150	
	1N1186		200	
	1N1187		300	
	1N1188		400	
	1N1189		500	
	1N1190		600	
	SPD1192		800	
	SPD1194		1000	
RMS Reverse Voltage	1N1183	V_r	35	Volts
	1N1184		70	
	1N1185		105	
	1N1186		140	
	1N1187		210	
	1N1188		280	
	1N1189		350	
	1N1190		420	
	SPD1192		560	
	SPD1194		700	
Half Wave Rectified Forward Current, Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, $T_C = 55^\circ C$)		I_O	35	Amps
Peak Repetitive Forward Current ($T_C = 55^\circ C$, 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)		$I_{FM} (rep)$	150	Amps
Peak Surge Current ($T_C = 55^\circ C$, Superimposed on Rated Current at Rated Voltage, 8.3 ms Pulse)		$I_{FM} (surge)$	500	Amps
Operating and Storage Temperature		T_J, T_{stg}	-65 to 175	°C

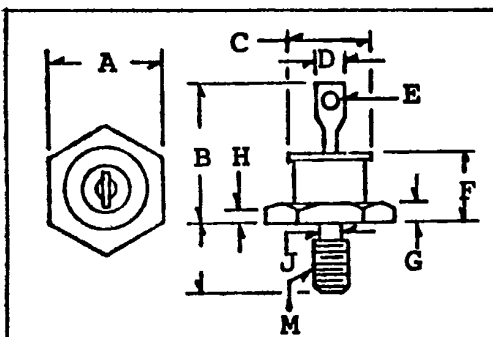
THERMAL CHARACTERISTICS

Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	1.0	°C/W

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Value	Unit
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (I_O (Max), 60 Hz Square Wave, $T_C = 55^\circ\text{C}$)	$V_{F(AV)}$	0.6	Vdc
Max Instantaneous Forward Drop ($I_F = 100$ Adc, $T_C = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.3	Vdc
Max Full Cycle Reverse Leakage Current, Averaged Over Full Cycle (Rated V_R , 60Hz, Square Wave, $T_C = 100^\circ\text{C}$)	$I_{R(AV)}$	10	mAdc
Max Reverse Leakage Current (Rated V_R , $T_C = 25^\circ\text{C}$)	I_R	1.0	mAdc

PHYSICAL DIMENSIONS

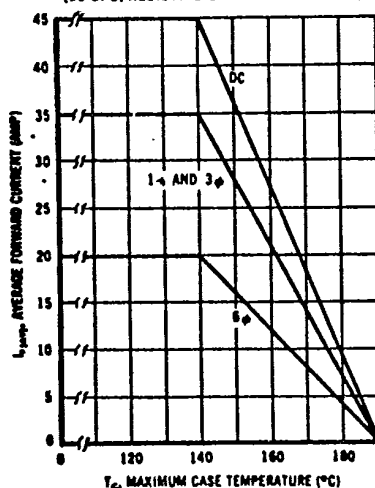


KEY TO DIMENSIONS:

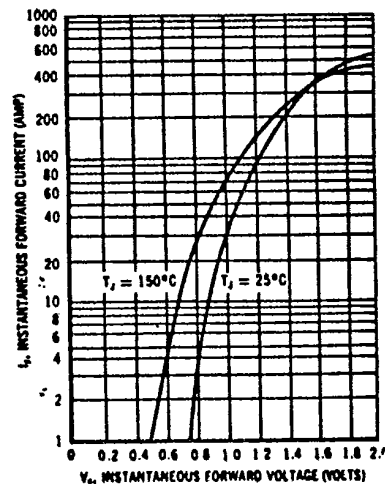
(Inches)

- A = .667 - .687
 B = 1.00 MAX
 C = .667 MAX
 D = .375 MAX
 E = .140 - .175
 F = .450 MAX
 G = .115 - .200
 H = .060 MIN
 J = .220 - .249
 K = .422 - .453
 M = $\frac{1}{4}$ -28 UNF-2A

TYPICAL OPERATING CURVES

 MAXIMUM AVERAGE FORWARD CURRENT RATING
 versus MAXIMUM CASE TEMPERATURE
 (60 CPS. RESISTIVE OR INDUCTIVE LOAD)


TYPICAL FORWARD CHARACTERISTICS



SSDI SOLID STATE DEVICES, INC.