1N6659R

SENSITRON SEMICONDUCTOR

JAN **JANTX JANTXV**

TECHNICAL DATA DATA SHEET 186, REV. A

HERMETIC ULTRAFAST RECOVERY RECTIFIER

DESCRIPTION: 200 VOLT, 30 AMP, 35 NANOSECOND, HERMETIC RECTIFIER IN A TO-254 PACKAGE.

MAX RATINGS/ELECTRICAL CHARACTERISTICS

ALL RATINGS ARE AT $T_A = 25$ °C UNLESS OTHERWISE SPECIFIED.

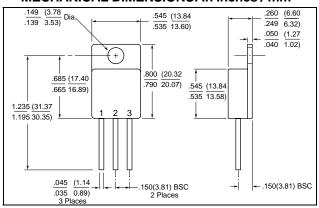
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	200	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) (I _f = 2 <mark>0 Amps)</mark>	M.A.	1.2	
$I_F = 10A, T_A = 25 \text{C}^{\circ}$	V _f	1.0	Volts
$I_F = 10A, T_A = 125 \text{ C}^{\circ}$		0.83	
MAXIMUM DC OUTPUT CURRENT (T _C = 100 °C)	Io	30	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ msec.	I _{FSM}	300	Amps
MAXIMUM REVERSE RECOVERY TIME (I _f = 0.5A, I _r = 1.0A, I _{rr} = 0.25A)	t _{rr}	35	nsec
MAXIMUM REVERSE CURRENT I, @ PIV (PER LEG)	l _r	10	μА
	FF WW	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{ heta JC}$	2.3	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	-	-65 to	°C
A STATE OF THE STA		+200	
JUNCTION CAPACITANCE V _R = 10Vdc, f = 1mHz	CJ	150	pF
		7 7 7 7	70 T. C.

^{*} Suffix R denotes common anode version.



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MECHANICAL DIMENSIONS: In Inches / mm



TO-254

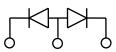
PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (R)	CATHODE 1	COMMON ANODE	CATHODE 2

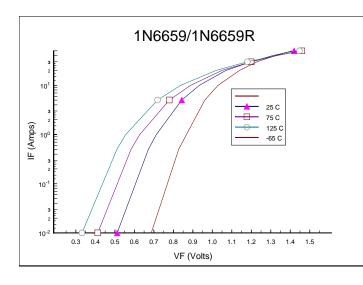
SCHEMATIC

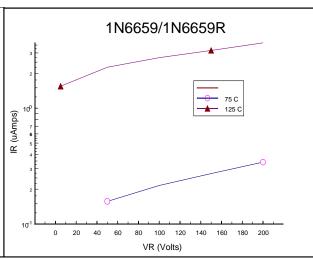
COMMON CATHODE

COMMON ANODE



CHARACTEISTICS CURVES







TECHNICAL DATA

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