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(212) 227-6005

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1N3659thru 1N3663 (SILICON)



Low-cost silicon rectifiers in hermetically sealed, press-fit case, designed for operation under severe environmental conditions. Cathode connected to case, but available with reverse polarity by adding suffix "R" to type number.

(DO-21)

MAXIMUM RATINGS ($T_C = 25^{\circ}C$ unless otherwise noted)

Rating	Symbol	1N3659 1N3659R	1N3660 1N3660R	1N3661 1N3661R	1N3662 1N3662R	1N3663 1N3663R	Units	
Peak Repetitive Reverse Voltage DC Blocking Voltage	V _{RM(rep)} V _R	50	100	200	300	400	Volts	
RMS Reverse Voltage	v _r	35	70	140	210	280	Volts	
Average Half-Wave Rectified Forward Current with Resistive Load @ 100°C case @ 150°C case	Io	30 25						
Peak One Cycle Surge Current (150°C case temp, 60 Hz)	IFM(surge)	400						
Operating Junction Temperature	T _J	-65 to +175						
Storage Temperature	Tstg	-65 to +200						

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	1N3659 1N3659R	1N3660 1N3660R	1N3661 1N3661R	1N3662 1N3662R	1N3663 1N3663R	Unit
Maximum Forward Voltage at 25 Amp DC Forward Current	v _F	1, 2	1.2	1, 2	1, 2	1, 2	Volts
Maximum Full Cycle Average Forward Voltage Drop @ Rated PIV and Current	V _{F(AV)}	0.7	0. 7	0.7	0.7	0. 7	Volts
Maximum Full Cycle Average Reverse Current @ Rated PIV and Current (as half-wave rectifier, resistive load, 150°C)	I _{R(AV)}	5. 0	4. 5	4. 0	3.5	3. 0	mA
Thermal Resistance	θЈС		°c/w				



Quality Semi-Conductors