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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	1 N 3 6 6 0 1 N 3 6 6 0 R	1N3661 1N3661R	1N3662 1N3662R	1M3663 1M3663R	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		Amp Amp				
Peak One Cycle Surge Current (150°C case temp, 60 Hz)	IFM(surge)		Amp				
Operating Junction Temperature	Т _Ј	,	°C				
Storage Temperature	Tstg		°C				

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	1M3659 1M3659R	1N3660 1N3660R	1N3661 1N3661R	1M3662 1M3662R	1 N3663 1 N36 63R	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	θJC		°c/w				

Q

Quality Semi-Conductors