



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DUAL ULTRAFAST POWER RECTIFIER

Qualified per MIL-PRF-19500/616

DEVICES

1N6657	1N6657R
1N6658	1N6658R
1N6659	1N6659R

LEVELS

JAN
JANTX
JANTXV

ABSOLUTE MAXIMUM RATINGS ($T_C = +25^\circ\text{C}$ unless otherwise noted) (Per Diode)

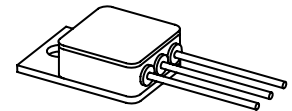
Parameters / Test Conditions	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RWM}	100	Vdc
		150	
		200	
Average Forward Current ⁽¹⁾	I_F	15	A dc
Peak Surge Forward Current	I_{FSM}	150	A(pk)
Thermal Resistance - Junction to Case	$R_{\theta jc}$	2.3	$^\circ\text{C}/\text{W}$

Note:

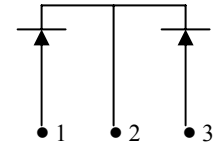
- (1) Derate @ 300mA/ $^\circ\text{C}$ above $T_C = 100^\circ\text{C}$
- (2) Pulse Test; 300 μs , duty cycle $\leq 2\%$

ELECTRICAL CHARACTERISTICS ($T_A = +25^\circ\text{C}$, unless otherwise noted)

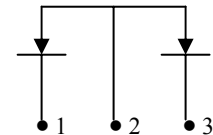
Parameters / Test Conditions	Symbol	Min.	Max.	Unit
OFF CHARACTERISTICS				
Breakdown Voltage ⁽²⁾	V_{BR}	100		Vdc
$I_R = 500\mu\text{A dc}$		150		
		200		
Forward Voltage ⁽²⁾	V_{F1} V_{F2}		1.0 1.2	Vdc
$I_F = 10\text{A dc}$ $I_F = 20\text{A dc}$				
Reverse Leakage Current ⁽²⁾	I_{R1}		10	$\mu\text{A dc}$
$V_R = 100\text{V}$		1N6657, R		
$V_R = 150\text{V}$ $V_R = 200\text{V}$		1N6658, R 1N6659, R		
Reverse Leakage Current	I_{R2}		1.0	mA dc
$V_R = 100\text{V}, T_C = +100^\circ\text{C}$		1N6657, R		
$V_R = 150\text{V}, T_C = +100^\circ\text{C}$ $V_R = 200\text{V}, T_C = +100^\circ\text{C}$		1N6658, R 1N6659, R		
Reverse Recovery Time	t_{rr}		35	nS
$I_F = 1.0\text{A}, I_R = 1\text{A}, I_{RR} = 100\text{mA}$				
Junction Capacitance	C_J		150	pF
$V_R = 10\text{V dc}, f = 1.0\text{MHz}, V_{SIG} = 50\text{mV(p-p) max}$				



TO-254



1N6657, 1N6658, 1N6659



1N6657R, 1N6658R, 1N6659R