

## DUAL ULTRAFAST POWER RECTIFIER

Qualified per MIL-PRF-19500/645

### DEVICES

**1N6772**                      **1N6772R**  
**1N6773**                      **1N6773R**

### 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 $I_D = 5\mu\text{A}_{dc}$	1N6772, R 1N6773, R $V_{RWM}$	400 600	Vdc
Average Forward Current <sup>(1)</sup>	$T_C = +100^\circ\text{C}$ $I_F$	8	A <sub>dc</sub>
Peak Surge Forward Current	$I_{FSM}$	60	A(pk)
Thermal Resistance - Junction to Case	$R_{\theta jc}$	2.5	$^\circ\text{C}/\text{W}$

#### Note:

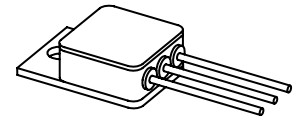
(1) Derate linearly @ 160mA/ $^\circ\text{C}$  above  $T_C = 100^\circ\text{C}$

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

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Breakdown Voltage <sup>(2)</sup>	1N6772, R 1N6773, R $V_{BR}$	400 600		Vdc
Forward Voltage $I_F = 4\text{A}_{dc}$ <sup>(2)</sup> $I_F = 8\text{A}_{dc}$ <sup>(2)</sup>	$V_{F1}$ $V_{F2}$		1.45 1.60	Vdc
Reverse Leakage Current $V_R = 320\text{V}$ <sup>(2)</sup> $V_R = 480\text{V}$ <sup>(2)</sup>	1N6772, R 1N6773, R $I_{R1}$		10	$\mu\text{A}_{dc}$
Reverse Leakage Current $V_R = 320\text{V}$ <sup>(2)</sup> , $T_C = +100^\circ\text{C}$ $V_R = 480\text{V}$ <sup>(2)</sup> , $T_C = +100^\circ\text{C}$	1N6772, R 1N6773, R $I_{R2}$		500	$\mu\text{A}_{dc}$
Reverse Recovery Time $I_F = 1\text{A}$ , $di/dt = 50\text{A}/\mu\text{s}$	$t_{rr}$		60	nS
Junction Capacitance $V_R = 5\text{V}_{dc}$ , $f = 1.0\text{MHz}$	$C_J$		200	pF

#### Note:

(2) Pulse Test; 300 $\mu\text{s}$ , duty cycle  $\leq 2\%$



TO-257

