

## UF1501 THRU UF1507 1.5AMP. Ultrafast Rectifiers (GPP)

VOLTAGE:50 TO 1000V

CURRENT:1.5A



### Specification Features:

- Case: Epoxy, Molded
- Weight: 0.4Gram (Approximately)
- High current capability, Low leakage current
- High surge current capability
- Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are Readily Solderable
- Lead And Mounting Surface Temperature For Soldering Purposed:  
260°C Max. For 10 Seconds 1/16 Inch From Case
- RoHS Compliant  
Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



UF150X: Device Name UF1501~ UF1507  
KEL :KEL Logo

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

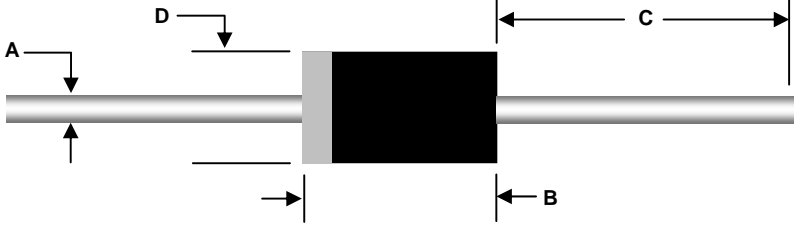
Parameter	Symbol	UF 1501	UF 1502	UF 1503	UF 1504	UF 1505	UF 1506	UF 1507	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum DC Blocking Voltage	$V_R$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectifier Current. (0.375" Lead Length @ $T_A=75^\circ\text{C}$ )	$I_{F(AV)}$	1.5							A
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	$I_{FSM}$	50							A
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150							$^\circ\text{C}$
Thermal Resistance (Junction to Ambient) (Note 1)	$R_{\theta JA}$	50							$^\circ\text{C/W}$

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	UF 1501	UF 1502	UF 1503	UF 1504	UF 1505	UF 1506	UF 1507	Units	
Reverse Current @ $V_R$	$I_R$	5							$\mu\text{A}$	
Forward Voltage @1.5A	$V_F$	1.0		1.3		1.7			V	
Maximum Reverse Recovery Time (Note 2)	$T_{RR}$	50				75				nS
Total Capacitance @ $V_R=4\text{V}, f=1\text{MHz}$	$C_T$	25							pF	

**NOTE:** (1) Thermal resistance from junction to ambient at 0.375" lead length, vertical P.C. board mounted  
 (2) Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$

### Package Outline

Package	Case Outline				
DO-15					
	<b>DO-15</b>				
	<b>DIM</b>	<b>Millimeters</b>		<b>Inches</b>	
		Min	Max	Min	Max
	<b>A</b>	0.70	0.90	0.028	0.034
	<b>B</b>	5.80	7.60	0.230	0.300
<b>C</b>	25.40	---	1.000	---	
<b>D</b>	2.60	3.60	0.104	0.140	