

Pb Free Plating Product

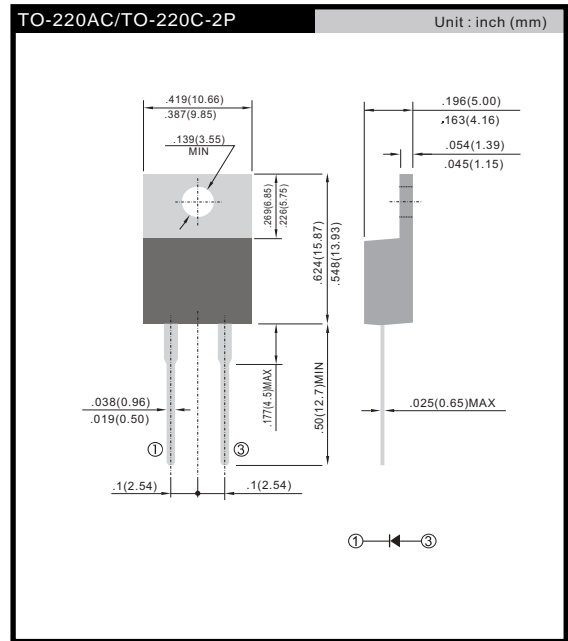
U1520 thru U1560



15.0 Ampere Heatsink Single Ultra Fast Recovery Rectifier Diodes

- Features**
- * Latest P/G technology with super fast recovery time
 - * Low forward voltage drop
 - * High current capability
 - * Low reverse leakage current
 - * High surge current capability
- Application**
- * Automotive Inverters and Solar Inverters
 - * Plating Power Supply, SMPS, Motor Control and UPS
 - * Car Audio Amplifiers and Sound Device Systems

- Mechanical Data**
- * Case: Heatsink TO-220-2L
 - * Epoxy: UL 94V-0 rate flame retardant
 - * Terminals: Solderable per MIL-STD-202 method 208
 - * Polarity: As marked on diode body
 - * Mounting position: Any
 - * Weight: 2.0 gram approximately



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	U1520	U1540	U1560	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	V
Maximum RMS Voltage	V _{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	V
Maximum Average Forward Rectified Current @T _A =125°C	I _(AV)	15.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	200			A
Peak Forward Voltage at 15.0A DC	V _F	0.95	1.25	1.50	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =125°C	I _R	5.0			μA
Maximum Reverse Recovery Time(Note1)	T _{RR}	35-50			nS
Typical Junction Capacitance (Note2)	C _J	80			pF
Typical Thermal Resistance (Note3)	R _{θJA}	2.0			°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150			°C

NOTES:1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A

2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

3.Thermal resistance junction to ambient

RATING AND CHARACTERISTIC CURVES (U1520 thru U1560)

