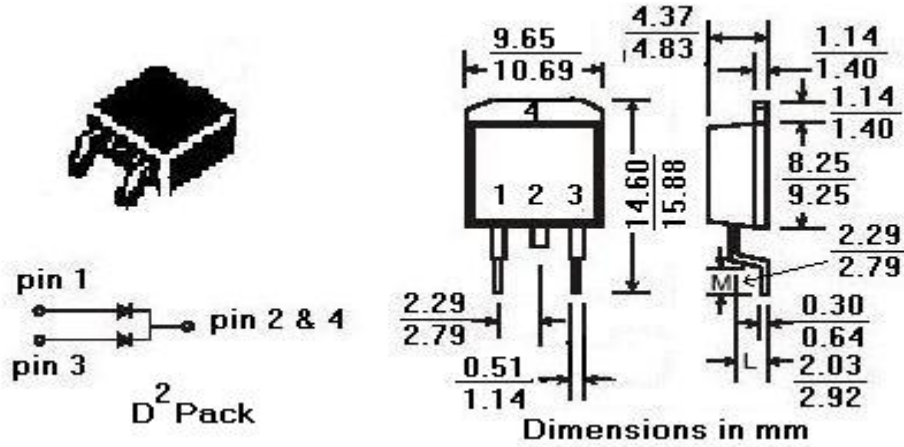


# 16.0AMP SUPER FASTER RECOVERY RECTIFIERS

UFD16C10~60



### Features

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### Mechanical Data

- Case Molded Plastic
- \* Epoxy: UL 94-0 Rate Flame Retardant
- Lead, Solderable per MIL-STD-202, Method 208 Guaranteed
- Weight: 2.24 grams

Max Ratings 25C	Symbol	UFD10C10	UFD10C20	UFD10C30	UFD10C40	UFD10C50	UFD10C60	UNITS
Peak Repetitive Reverse Voltage	V <sub>rrm</sub>	100	200	300	400	500	600	V
working Peak Reverse Voltage	V <sub>rwm</sub>	100	200	300	400	500	600	V
DC Blocking Voltage	V <sub>dc</sub>	100	200	300	400	500	600	V
RMS Reverse Voltage	V <sub>r(rms)</sub>	70	140	210	280	350	420	V
Average Forward Rectified Current per leg T <sub>c</sub> =150C @ Rated V <sub>dc</sub>	I <sub>F(av)</sub>	16	16	16	16	16	16	A
Repetitive Peak Forward Surge Current @ Rated V <sub>dc</sub> Square Wave, 20KHz, T <sub>c</sub> =150C	I <sub>fm</sub>	16	16	16	16	16	16	A
Non-Repetitive Peak Forward Surge Current @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz	I <sub>fsm</sub>	125						A
Operating & storage Temp. Range	T <sub>j</sub> /T <sub>s</sub>	-65~+150						C
Max Forward Voltage @ I <sub>f</sub> =8Amps, PW=300us, T <sub>c</sub> =25C	V <sub>f</sub>	0.975	0.975	1.3	1.3	1.5	1.5	A
Max DC Reverse Current @ Rated DC Blocking Voltage T <sub>c</sub> =125C / T <sub>c</sub> =25C	I <sub>r</sub>	10						uA
Max. Reverse Recovery Time @ I <sub>f</sub> =0.5A, I <sub>r</sub> =1A, I <sub>rr</sub> =0.25A	T <sub>rr</sub>	35	35		50	50	50	nA
Typical Thermal Resistance Junction to Case	R <sub>thjc</sub>	1.5						C/W

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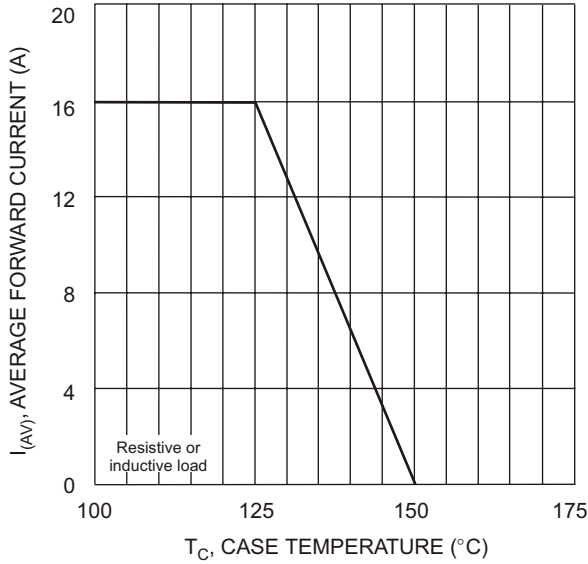


Fig. 1 Forward Current Derating Curve

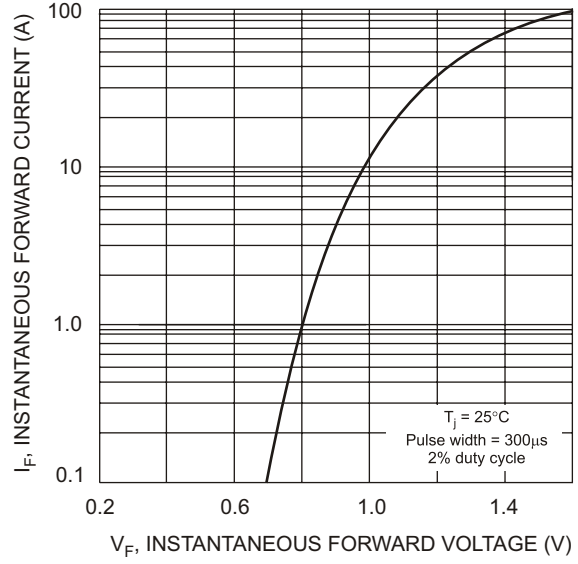


Fig. 2 Typical Forward Characteristics per Element

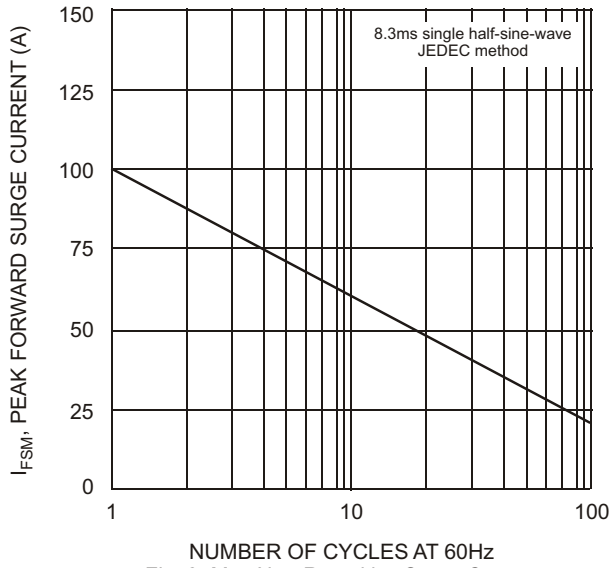


Fig. 3 Max Non-Repetitive Surge Current

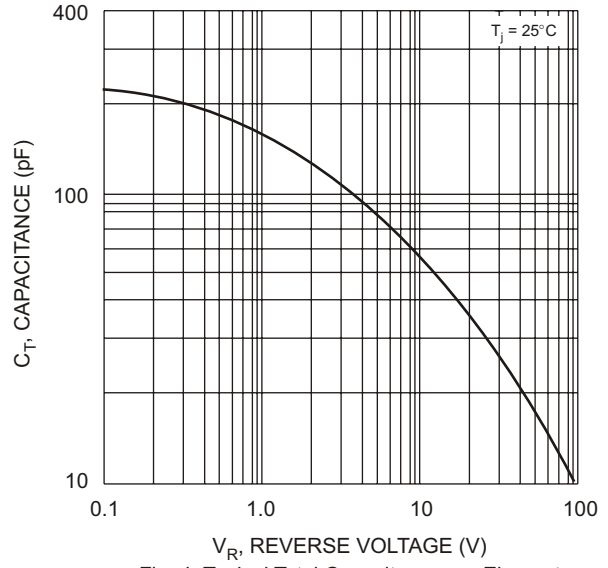


Fig. 4 Typical Total Capacitance per Element

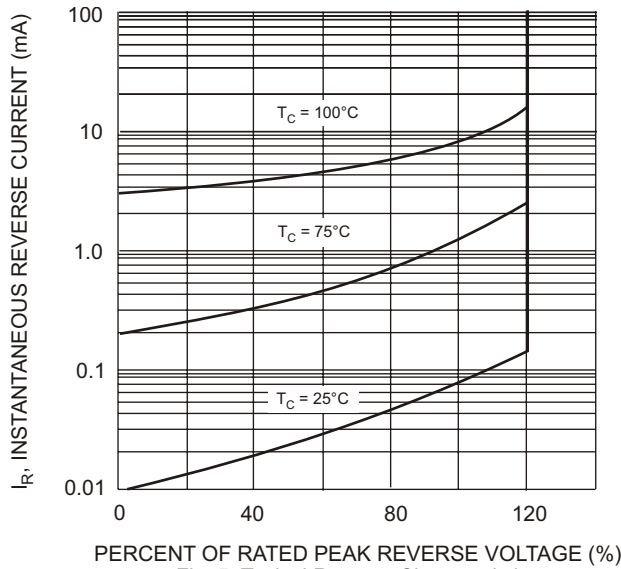


Fig. 5 Typical Reverse Characteristics