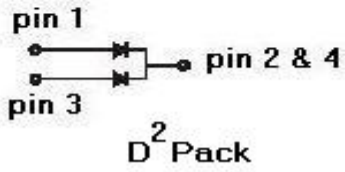
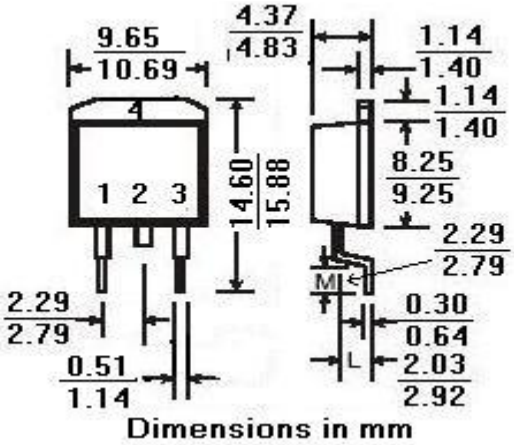
Data Sheet

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	Vrrm	100	200	300	400	500	600	V
working Peak Reverse Voltage	Vrwm	100	200	300	400	500	600	V
DC Blocking Voltage	Vdc	100	200	300	400	500	600	V
RMS Reverse Voltage	Vr(rms)	70	140	210	280	350	420	V
Average Forward Rectified Current per leg Tc=150C @ Rated Vdc	IF(av)	16	16	16	16	16	16	A
Repetitive Peak Forward Surge Current @ Rated Vdc Square Wave, 20KHz, Tc=150C	Ifm	16	16	16	16	16	16	A
Non-Repetitive Peak Forward Surge Current @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz	Ifsm	125						A
Operating & torage Temp. Range	Tj/Ts	-65~+150						C
Max Forward Voltage @ If=8Amps, PW=300us, Tc=25C	Vf	0.975	0.975	1.3	1.3	1.5	1.5	A
Max DC Reverse Current @ Rated DC Blocking Voltage Tc=125C / Tc=25C	Ir	10						uA
Max. Reverse Recovery Time @ If=0.5A, Ir=1A, Irr=0.25A	Trr	35	35		50	50	50	nA
Typical Thermal Resisistance Junction to Case	Rthjc	1.5						C/W

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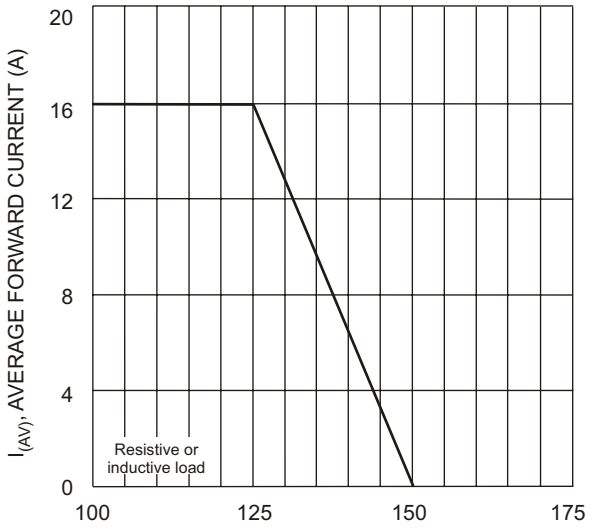

Fig. 1 Forward Current Derating Curve

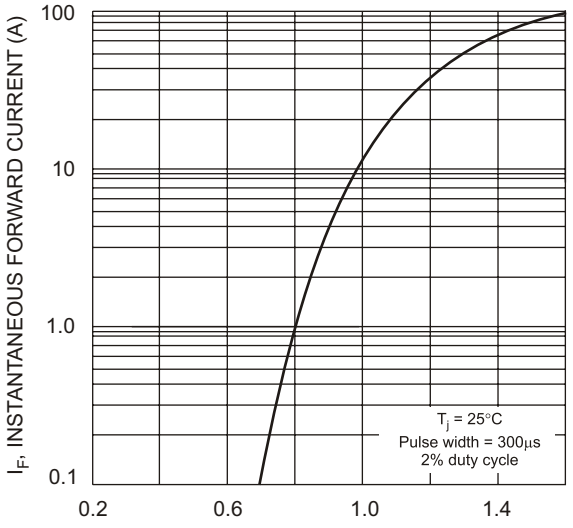

Fig. 2 Typical Forward Characteristics per Element

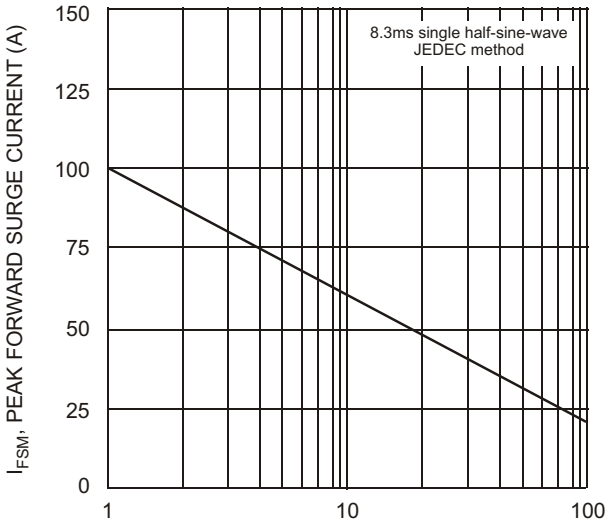

Fig. 3 Max Non-Repetitive Surge Current

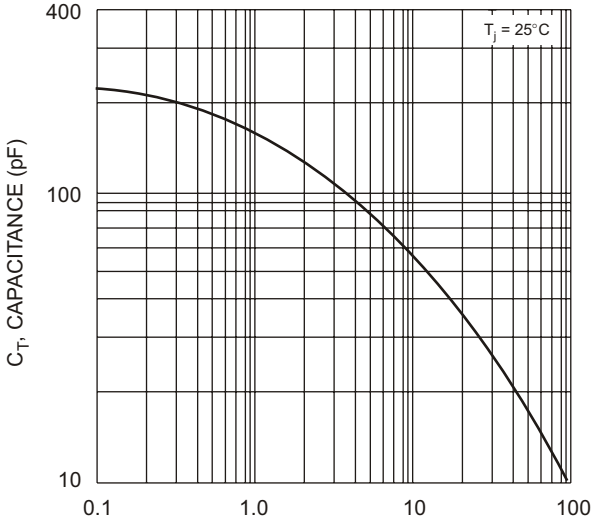

Fig. 4 Typical Total Capacitance per Element

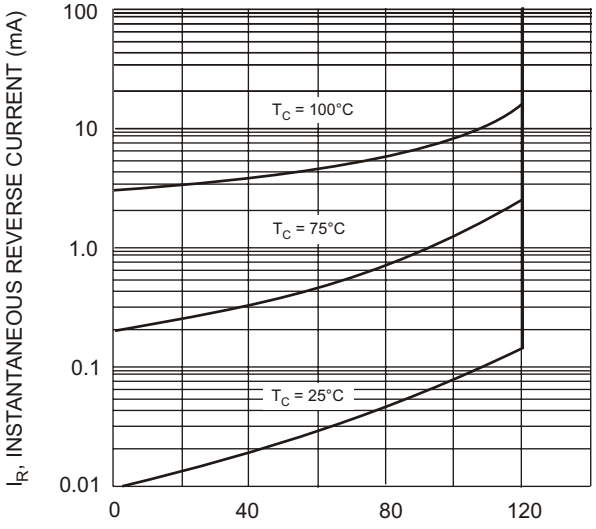

Fig. 5 Typical Reverse Characteristics