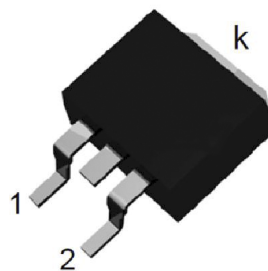


Features

- FRED (Planar) wafer construction
- Ultrafast recovery time
- Low forward voltage drop, low power losses
- High efficiency operation
- Plastic package has underwriters Laboratory
Flammability Classification 94V-0



Package: TO-263



Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.4grams(approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube or tape reel packing 800/reel

Maximum Ratings & Electrical Characteristics

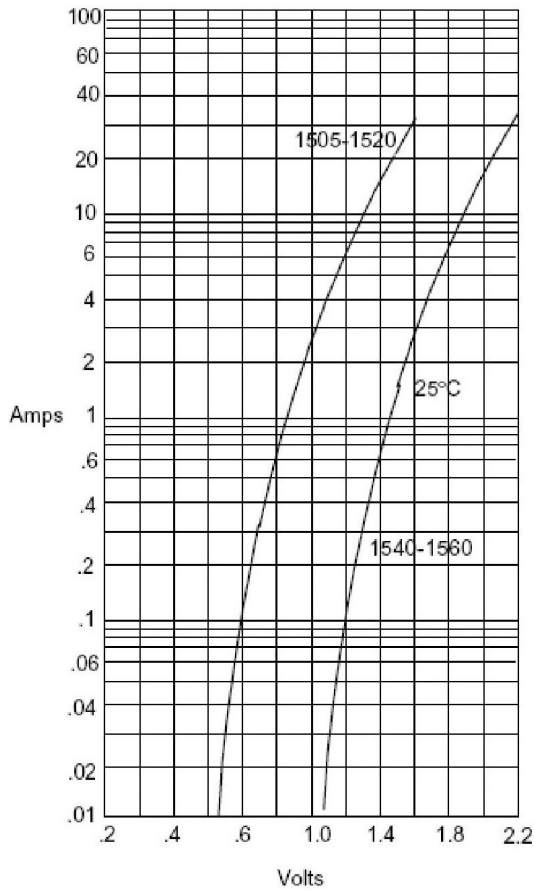
(T_A=25°C unless otherwise noted)

PARAMETER		TEST CONDITIONS		SYMBOL	MURB1640	UNIT
Maximum repetitive peak reverse voltage				V _{RRM}	400	V
Working peak reverse voltage				V _{RWM}	400	V
Maximum DC blocking voltage				V _{DC}	400	V
Maximum average forward rectified current at T _c =105°C total device per diode				I _F (AV)	16	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode				I _{FSM}	150	A
Voltage rate of change(rated V _R)				Dv/dt	10000	V/us
Operating junction temperature range				T _J	—55 to+150	°C
Storage temperature range				T _{STG}	—55 to+150	°C
Maximum Reverse Recover Time (I _f =0.5Amp, I _R =1.0Amp,I _{rec} =0.25Amp)		T _{rr}		T _{rr}	50	ns
Maximum instantaneous forward voltage per leg		I _F =16A I _F =16A	T _C =25°C T _C =125°C	V _F	1.50 1.40	V
Maximum reverse current per leg at working peak Reverse voltage			T _J =25°C T _J =100°C	I _R	10 500	uA uA
Thermal Characteristics T _A =25°C unless otherwise noted						
Symbol	Parameter	TYP (TO-263)				Unit
R _{θJC}	Thermal Resistance, Junction to Case per Leg	2.0				°C /W
R _{θJA}	Thermal Resistance, Junction to Ambient per Leg	62.5				°C /W

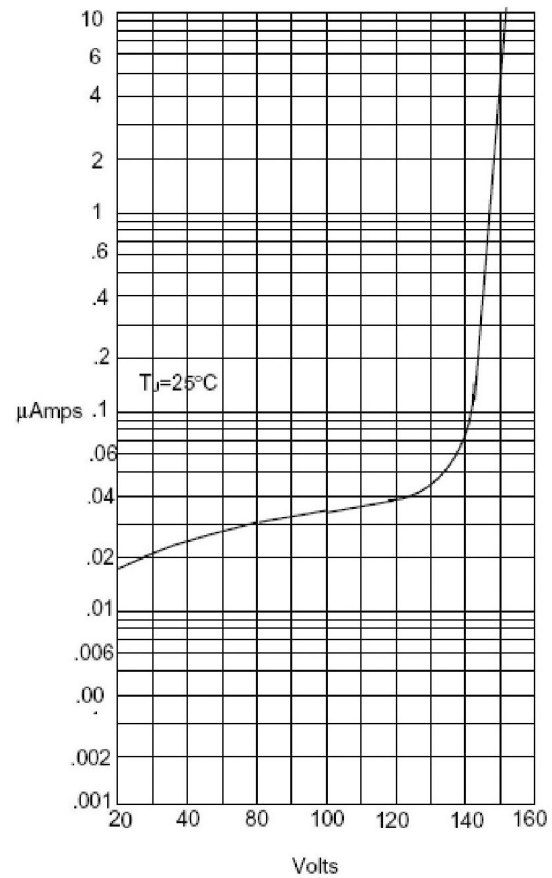
Note: Pulse test:300us pulse width, duty cycle=2%

Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

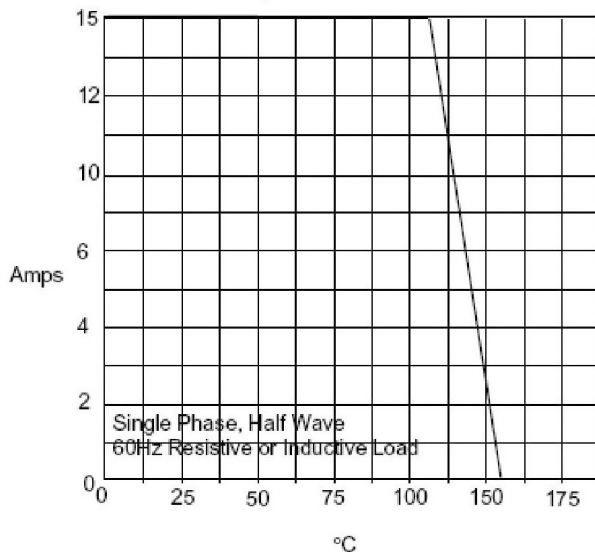


Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts



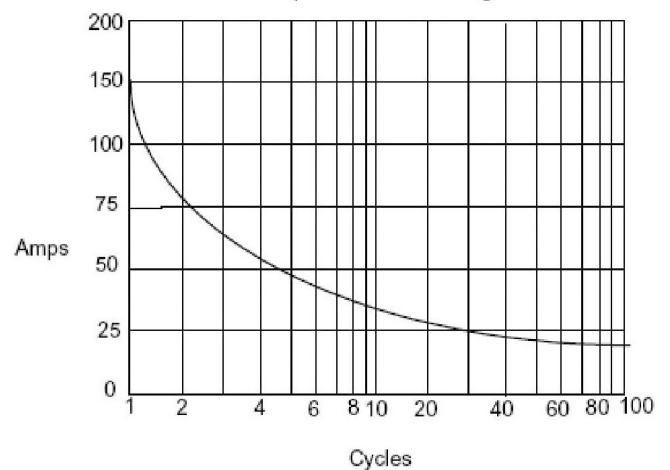
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Case Temperature - $^\circ\text{C}$

Figure 4
Maximum Non-Repetitive Forward Surge Current

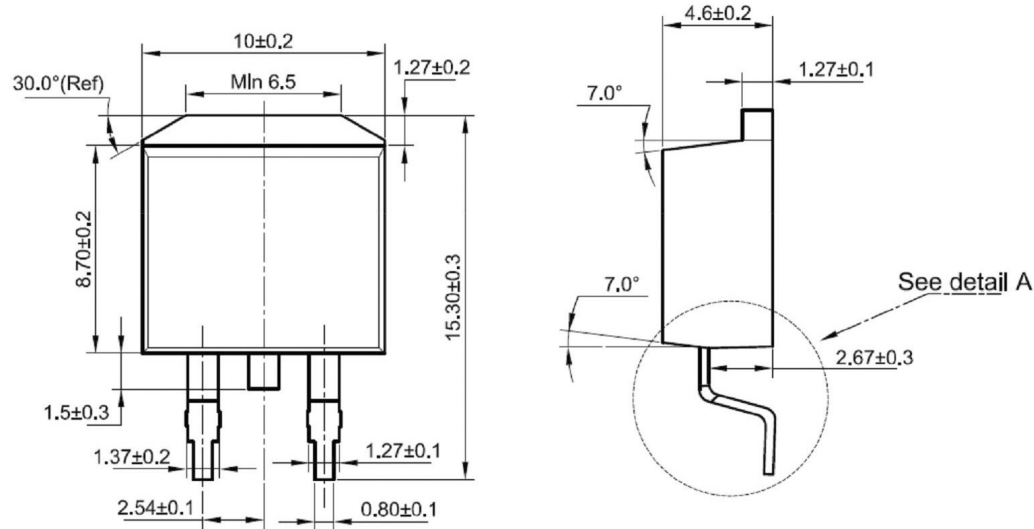


Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Package Outline Dimensions

Unit: millimeters

TO-263



Detail A

