

GLASS PASSIVATED SUPER FAST RECTIFIERS

TO-220AC

PRODUCT SUMMARY

Reverse Voltage 50 to 600 Volts Foward Current 8.0 Amperes

FEATURES

Glass passivated chip Superfast switching time for hight efficiency Low reverse leakage current High surge capacity

MECHANICAL DATA

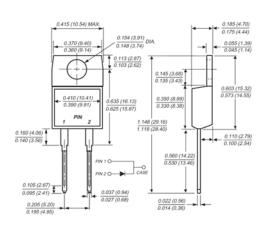
Case: TO-220AC full molded plastic package

Terminals: Lead solderable per MIL-STD-202, Method 208

Polarity: As marked

Standard packaging: Any

Weight: 0.08 ounces, 2.24 grams





Pb-free; RoHS-compliant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified.)

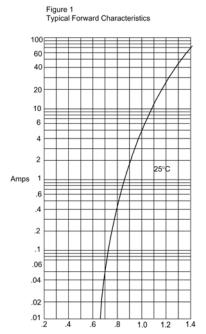
Parameter	Symbol	MUR805	MUR810	MUR820	MUR840	MUR860	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current at T _c =100°C	I _{F(AV)}	8.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	L	125.0					Amps
Maximum instantaneous forward voltage at 8.0A	V _F	1.0 1.3 1.8				Volts	
Maximum DC reverse current @T_j=25°C at rated DC blocking voltage @T_j=125°C	I _R	10.0 500					uА
Maximum reverse recovery time at $I_{\rm F}$ =0.5A, $I_{\rm R}$ =1.0A, $I_{\rm r}$ =0.25A	t _{rr}	50					nS
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					∘C

Notes: 1. Pulse test: Pulse width 300 usec, Duty ccle 2%

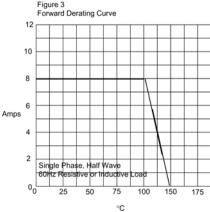


RATINGS AND CHARACTERISTIC CURVES

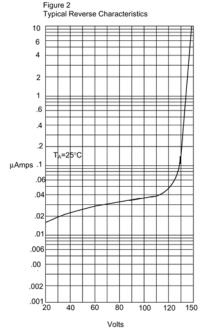
(T_A = 25°C unless otherwise noted)



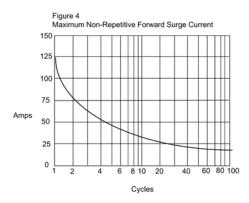
Volts Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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