

ULTRAFAST RECTIFIER MURS220A-240A

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * High surge capability
- * Good for switching mode circuit

MECHANICAL DATA

Case: SMC Molded plastic

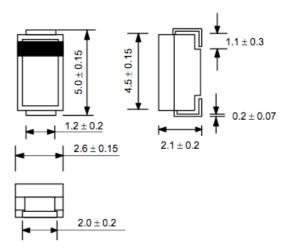
Epoxy: UL94V-O rate flame retardant

Lead: Lead Formed for Surface Mount

Polarity: Color band denotes cathode end

- Mounting position: Any
- Weight: 0.24 gram

SMA (DO-214AC)



Dimensions in millimeters

	SYMBOL	MURS220A	MURS230A	MURS240A	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	200	400	600	Volts
Maximum average forward rectified current	I _{O(AV)}	2.0		Amps	
Peak forward surge current					
8.3ms single half sine-wave superimposed on	I _{FSM}	40.0			Amps
rated load (JEDEC					
Method)					
Maximum instantaneous forward voltage at 2.0A DC	V _F	1.3			Volts
Maximum DC reverse T _A =25°C current		5.0			μA
at rated DC blocking voltage	C	100.0			
Typical junction capacitance (NOTE 1)	CJ	C _J 15.0		pF	
Typical reverse recovery time (NOTE 2)	t _{rr}	75		ns	
Typical thermal resistance (NOTE 3)	R _{θJA}	80.0		°C/W	
Operating junction and storage temperature range	T _J , T _{STG}		-55 to +150		°C

NOTES:

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

(2) Reverse recovery test conditions:IF=0.5A, IR=1.0A, IRR=0.25A

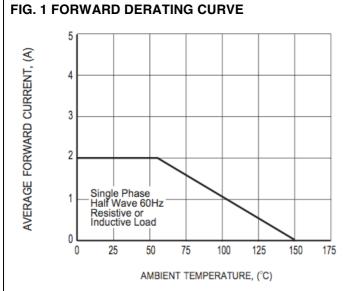
(3) Thermal resistance from junction to ambient



Bruckewell Technology Corp., Ltd.

Ratings and Characteristic Curves

FIG. 2 PEAK FORWARD SURGE CURRENT



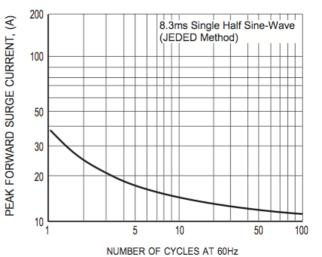


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

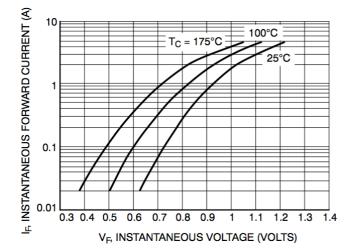


FIG. 4 TYPICAL REVERSE CURRENT

