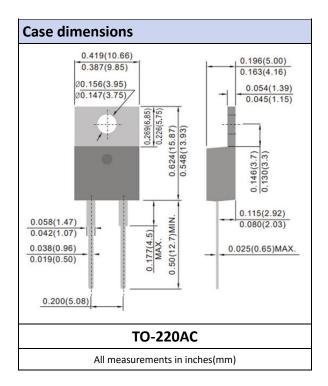


Ultrafast recovery rectifiers

Primary characteristics				
Parameter	Value	Unit		
Peak repetitive reverse voltage	1200	V		
Maximum Average Forward Rectified Current (per device)	20	А		

Features

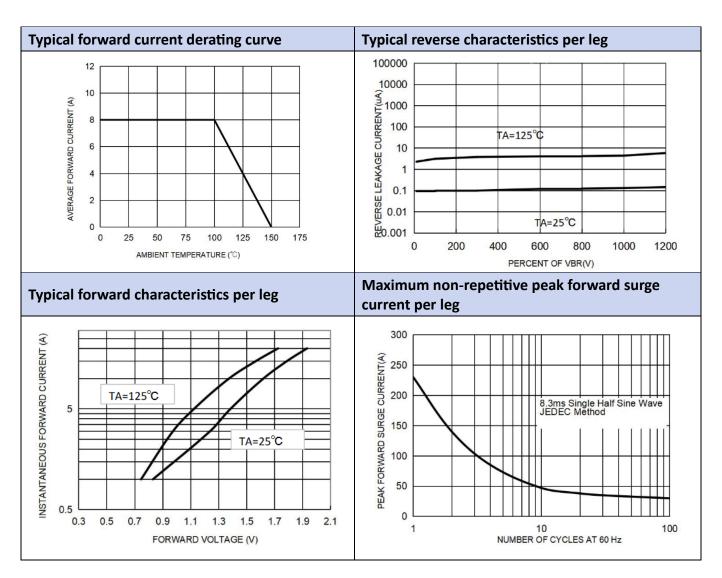
- TO-220AC case for easy automatic insertion.
- Pb-free and RoHS compliant
- High speed switching capability
- High current capability
- Low power losses, high efficiency
- High forward surge capability
- Solder bath temperature: 275°C max., 10s, per JESD22-B106
- Approx. weight: 1.9g / 0.067oz



Maximum ratings (T _a = 25°C)					
Parameter	Symbol	Value	Unit		
Maximum repetitive peak reverse voltage	V _{RRM}	1200			
Maximum RMS voltage	V _{RMS}	840	V		
Maximum DC blocking voltage	V _{DC}	1200			
Maximum average forward rectified current	Io	20			
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	230	A		
Maximum reverse recovery time	t _{rr}	48 typ., 75 max.	ns		
Typical thermal resistance 1)	ReJC	2.0	°C/W		
Operating junction and storage temperature range	T _j , T _{STG}	-40 ~ 150	°C		
1) Thermal resistance from junction to case per leg mounted on he	atsink		"		



Electrical characteristics (per leg)						
Paramatan				Value		11
Parameter		Symbol	Тур.	Max.	Unit	
Forward voltage drop ²⁾	I _F =5.0A	T _A =25°C		1.38	-	
	IF=5.UA	T _A =125°C	VF	1.12	-	
	1 150	T _A =25°C		1.79	-	\Box v
	I _F =15A	T _A =125°C		1.57	-	V
	1 204	T _A =25°C		1.93	2.2	
	I _F =20A	T _A =125°C		1.73	-	
Maximum reverse current @V _R =1200V		T _A =25°C	I _R	0.2	10	
		T _A =125°C		5.0	-	μΑ
2) Pulse test: 300μs pulse width, 2	L% duty cycle	•			•	•





Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
MUR20120AC	TO-220AC	50 pcs / tube	

Disclaimer

Akyga semi reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Akyga semi or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on Akyga semi data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Akyga semi does not assume any liability arising out of the application or use of any product or circuit. Akyga semi products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Akyga semi. Customers using or selling Akyga semi components for use in such applications do so at their own risk and shall agree to fully indemnify Akyga semi and its subsidiaries harmless against all claims, damages and expenditures.