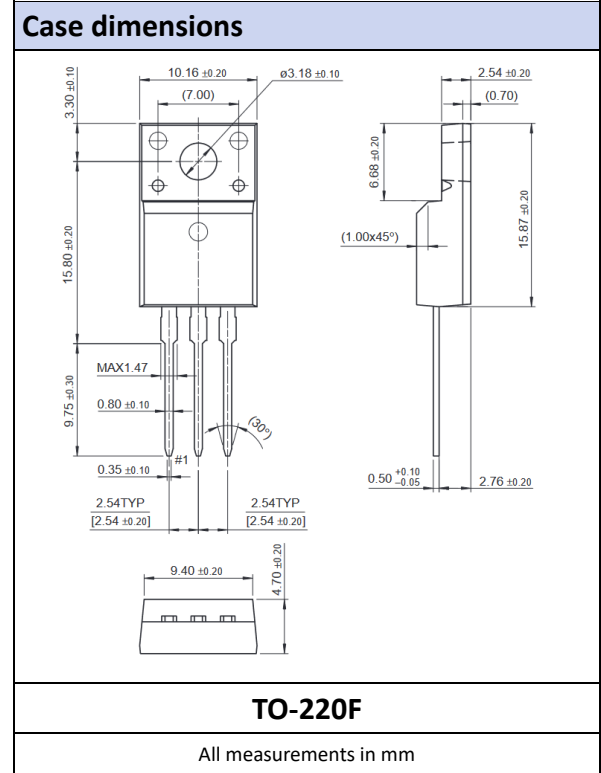


Schottky Barrier Rectifier Diode

Primary characteristics		
Parameter	Value	Unit
Peak repetitive reverse voltage	60	V
Maximum Average Forward Rectified Current	20	A

Features

- **TO-220F** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Low forward voltage drop
- Guard ring construction for transient protection
- High current capability
- High forward surge capability
- Low power losses, high efficiency
- Solder bath temperature: 275°C max., 10s per JESD22-106
- Weight: 1.74g / 0.06oz



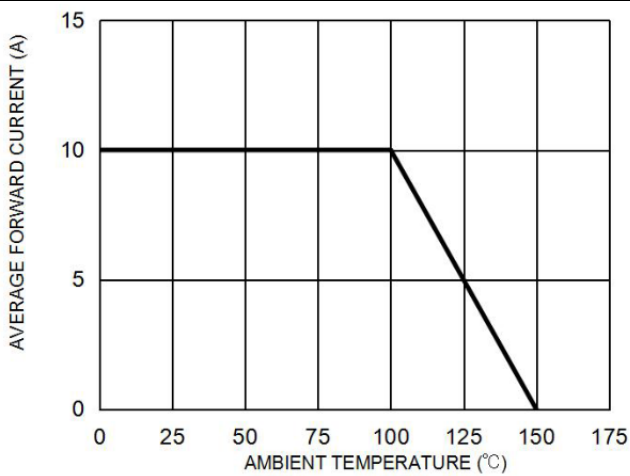
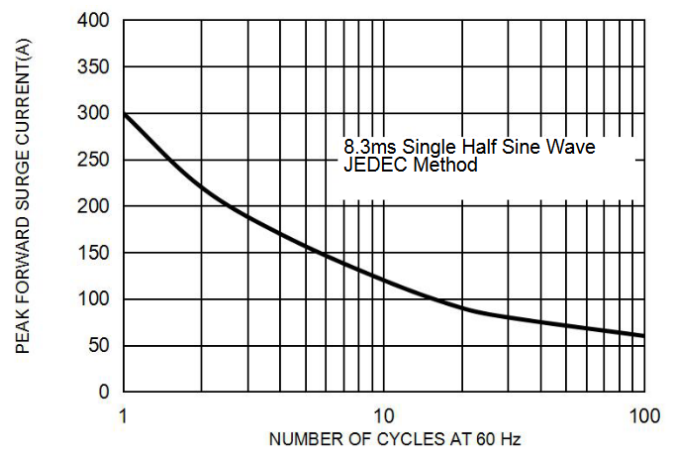
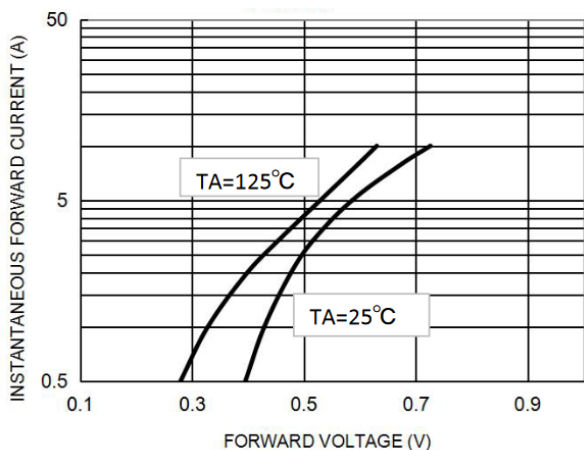
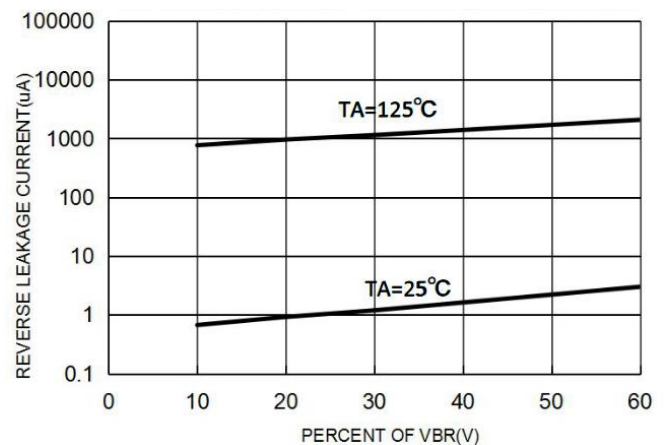
Maximum ratings (per leg, T _a = 25°C)			
Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	60	V
Maximum RMS voltage	V _{RMS}	42	
Maximum DC blocking voltage	V _{DC}	60	
Maximum average forward rectified current	Per leg	10	A
	Total	20	
Peak forward surge current, 8.3ms single half sine-wave	I _{FSM}	300	
Thermal resistance, junction to ambient air	R _{θJA}	2	°C/W
	R _{θJC}	4	
Operating junction temperature range	T _j	-55 ~ 150	°C
Storage temperature range	T _{STG}	-55 ~ 150	°C

Maximum ratings (per leg, T_a = 25°C)

Parameter	Symbol	Value		Unit
		Typ	Max	
Forward voltage drop ¹⁾	V _F	0.51	-	V
@I _F =3.0A				
		T _A =125°C		
@I _F =5.0A		T _A =25°C		
		T _A =125°C		
@I _F =10A		T _A =25°C	0.72	
	T _A =125°C	0.63	-	
Maximum reverse current @V _R =60V	I _R	3.0	50	μA
		2.0	-	mA

Notes:

1) Pulse test: 300μs pulse width, 1% duty cycle

Maximum forward current derating curve

Maximum non-repetitive forward surge current per leg

Typical forward characteristics per leg

Typical reverse characteristics per leg


Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
MBR2060FCT	TO-220F	50 pcs / tube 1000 pcs / small box 5000 pcs / big box	---

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.