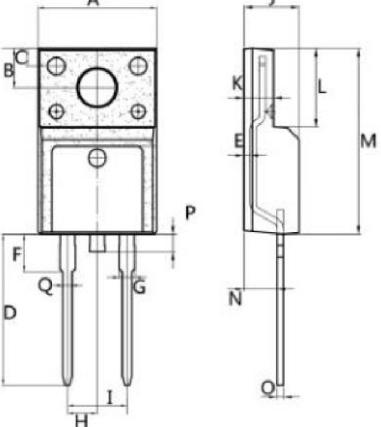
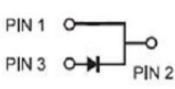
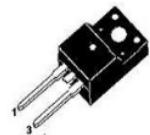


Ultrafast Recovery Rectifiers

Primary characteristics		
Parameter	Value	Unit
Peak repetitive reverse voltage	600	V
Maximum Average Forward Rectified Current	10	A

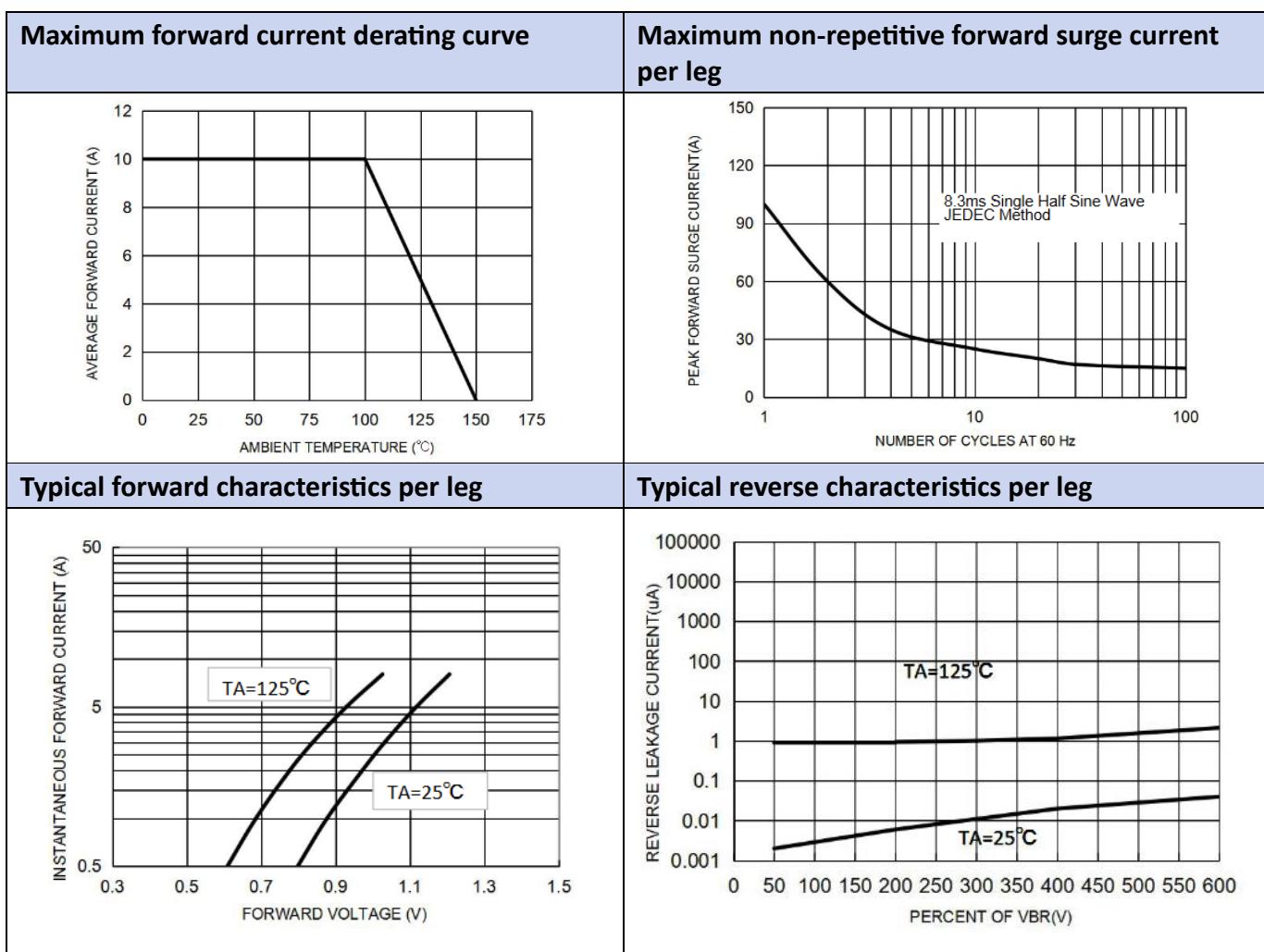
Features

- TO-220FAC case for easy automatic insertion.
- Pb-free and RoHS compliant
- High current capability
- High forward surge capability
- Low power losses, high efficiency
- Solder bath temperature: 275°C max., 10s per JESD22-106
- Approximate weight: 0.06oz/1.74g

Case dimensions												
												
												
TO-220FAC												
	A	B	C	D	E	F	G	H	I	J	K	
TYP	10.10	3.10	1.35	13.10	0.58	3.2	1.38	2.54	5.08	4.68	2.58	
MIN	9.95	2.95	1.25	12.95	0.50	3.1	1.30	-	-	4.60	2.50	
MAX	10.25	3.25	1.45	13.25	0.65	3.3	1.45	-	-	4.75	2.65	
	L	M	N	O	P	Q	All measurements in mm					
TYP	6.45	15.7	2.90	0.50	1.5	0.80						
MIN	6.35	15.4	2.75	0.48	1.4	0.76						
MAX	6.55	16.0	3.05	0.52	1.6	0.84						

Maximum ratings (per leg, $T_a = 25^\circ\text{C}$)					
Parameter	Symbol	Value		Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	420	V	
Maximum RMS voltage	V_{RMS}				
Maximum DC blocking voltage	V_{DC}				
Maximum average forward rectified current	I_o	10	100	A	
Peak forward surge current, 8.3ms single half sine-wave	I_{FSM}				
Thermal resistance, junction to ambient air	$R_{\theta JA}$	2.0	4.0	$^\circ\text{C}/\text{W}$	
	$R_{\theta JC}$				
Operating junction temperature range	T_j	150		$^\circ\text{C}$	
Storage temperature range	T_{STG}	-40 ~ 150		$^\circ\text{C}$	

Maximum ratings (per leg, $T_a = 25^\circ\text{C}$)				
Parameter	Symbol	Value		Unit
		Typ	Max	
Forward voltage drop ¹⁾	V_F	1.05	-	V
@ $I_F=3.0\text{A}$		0.84	-	
		1.15	-	
		0.93	-	
@ $I_F=5.0\text{A}$		1.25	1.59	
		1.03	-	
@ $I_F=10\text{A}$		50	1000	nA
Maximum reverse current @ $V_R=60\text{V}$		2000	-	
Maximum reverse recovery time @ $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$	t_{rr}	-	35	ns
Notes:				
1) Pulse test: 300 μs pulse width, 1% duty cycle				



Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
MUR1060FAC	TO-220FAC	50 pcs / tube 1000 pcs / small box 5000 pcs / big box	---

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