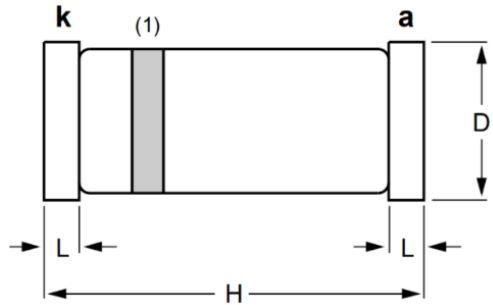


SMD Rectifying Diode

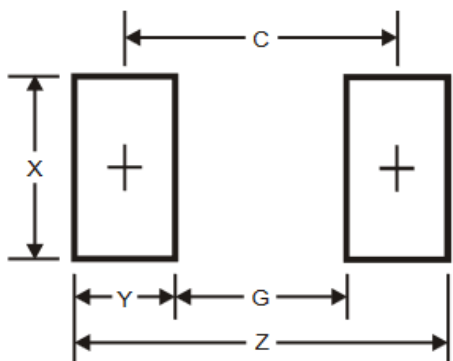
Primary characteristics		
Parameter	Value	Unit
Peak reverse voltage (V_{RM})	30	V
Peak forward current (I_{FM})	300	mA

Features

- **MiniMELF (SOD-80C, DO-213AA, LL-34)** case for easy automatic insertion.
- Pb-Free and **RoHS** Compliant
- Hermetically sealed **glass**
- Low reverse leakage
- High stability and high reliability

Case dimensions			
 ¹⁾The marking band indicates the cathode			
LL-34 (MiniMELF)			
Unit	D	H	L
mm	1.45 ± 0.05	3.45 ± 0.15	0.29 ± 0.04

Absolute maximum ratings and general characteristics ($T_a = 25^\circ\text{C}$)					
Parameter	Test condition	Symbol	Value		Unit
			Min.	Max.	
Peak reverse voltage		V_{RM}	-	30	V
Peak forward current		I_{FM}	-	300	mA
Average rectified output current		I_O	-	200	mA
Surge forward current		I_{SURGE}	-	500	mA
Operating junction temperature		T_j	-	75	$^\circ\text{C}$
Storage temperature range		T_{STG}	-65	170	$^\circ\text{C}$
Reverse leakage current	$V_R=25\text{V}$	I_R	-	2.3	μA
Forward voltage	$I_F=0.1\text{mA}$	V_F	-	240	V
	$I_F=1.0\text{mA}$		-	320	
	$I_F=10\text{mA}$		-	400	
	$I_F=30\text{mA}$		-	500	
	$I_F=100\text{mA}$		-	800	
Reverse recovery time	$I_F=I_R=10\text{mA}$, $R_L=100\Omega$	t_{rr}	-	4.0	ns

Suggested soldering pad layout					
					
LL-34 (MiniMELF)					
Pad dimensions					
Unit	Z	G	X	Y	C
mm	4.70	2.10	1.70	1.30	3.50

Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
BAS85	MiniMELF (SOD-80C, DO-213AA, LL-34)	2500 pcs / reel	---

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.