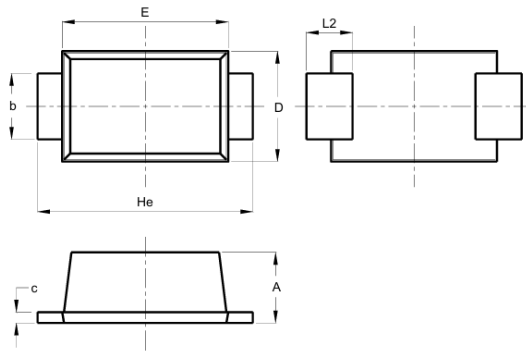


SMD Schottky Rectifier Diode

Primary characteristics		
Parameter	Value	Unit
Repetitive peak reverse voltage	20 ~ 200	V
Average rectified output current	3.0	A

Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop
- Molding compound meets UL 94 V-0 flammability rating, RoHS compliant, halogen free
- Terminals: tin plated leads, solderable per MIL-STD-202F at max. temp 260°C

Case dimensions							
							
SOD-123FL							
Unit mm	A	b	c	D	E	He	L2
MIN	1.00	0.80	0.12	1.75	2.60	3.55	0.50
MAX	1.20	1.10	0.20	1.95	2.90	3.80	0.85

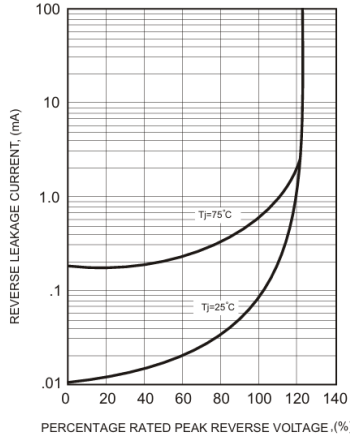
Absolute maximum ratings and general electrical characteristics

(T_a = 25°C unless otherwise specified, single phase half wave 6Hz, resistive or inductive load, for capacitive load, derate current by 20%)

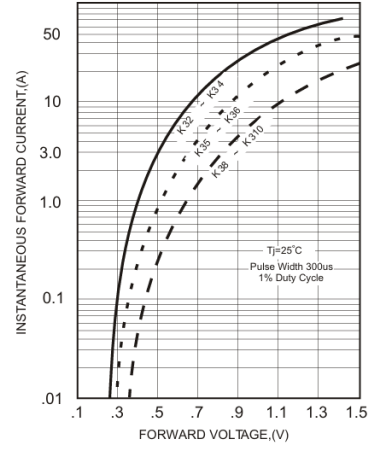
Parameter	Symbol	Value								Unit
		K32	K33	K34	K35	K36	K38	K39	K310	
Repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	90	100	V
RMS voltage	V _{RMS}	14	21	28	35	42	56	63	70	
DC blocking voltage	V _{DC}	20	30	40	50	60	80	90	100	
Average rectified output current	I _O	3.0								A
Peak forward surge current, 8.3 ms single half sine-wave (JEDEC method)	I _{FSM}	80								
Instantaneous forward voltage at 3.0A	V _F	0.55			0.70		0.85			V
DC reverse current	T _a =25°C	0.1				0.02				mA
	T _a =100°C	5				2				
Typical junction capacitance at 1MHz, 4Vdc	C _j	300								pF
Typical thermal resistance junction to lead	R _{θJL}	10								°C/W
Storage temperature	T _{STG}	-65 ~ 150								°C
Operating junction and storage temperature range	T _j	-65 ~ 150								

Typical characteristic curve

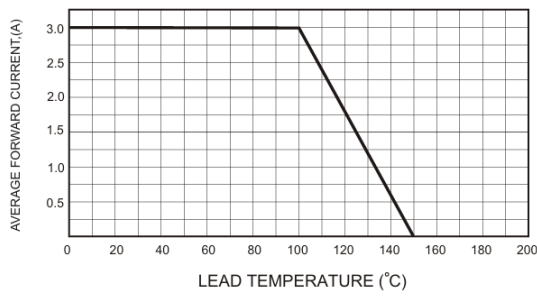
Typical reverse characteristics



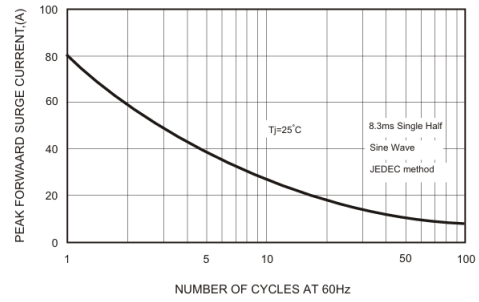
Typical forward characteristics



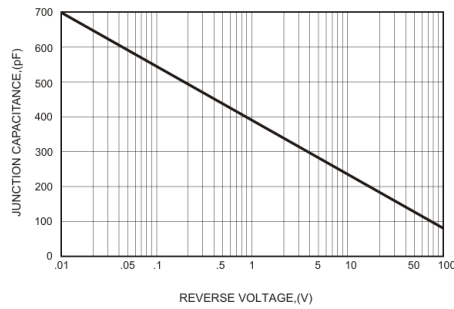
Typical forward current derating curve



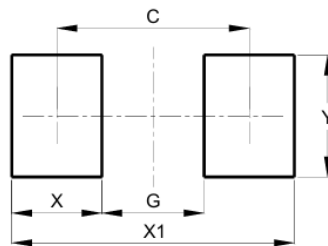
Maximum non-repetitive forward surge current



Typical junction capacitance



Suggested soldering pad layout



Dimension	Value mm
C	3.25
G	2.00
X	1.25
X1	4.50
Y	1.50

Ordering information		
Part Number	Package	Shipping Quantity
K32~K310	SOD-123FL	10 000 pcs / reel

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