1 Amp Schottky Rectifier

Features:

- Schottky Barrier Rectifier
- High Current Capability
- Low Forward Voltage
- Lead Free Finish/RoHS Compliant(Note 1)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings:

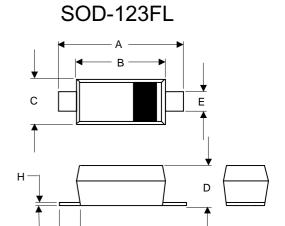
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead

Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
MBR150S	K15/T5	50V	35V	50V	
MBR160S	K16/T6	60V	42V	60V	
MBR180S	K18/T8	80V	56V	80V	
MBR1100S	K110/TA	100V	70V	100V	
MBR1150S	K115	150V	105V	150V	
MBR1200S	K120	200V	140V	200V	

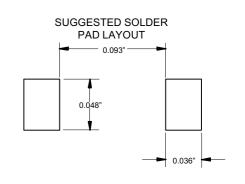
Electrical Characteristics@25°C Unless Otherwise Specified

Average Forward	$I_{F(AV)}$	1.0A	T _L = 90°C
Current			
Peak Forward Surge	I_{FSM}	30A	8.3ms, half sine
Current			
Maximum Instantaneous	Forward		
Voltage			
MDD4500 4000			
MBR150S-160S	V_{F}	.70V	$I_{FM} = 1.0A;$
MBR180S-1150S		.85V	$T_J = 25^{\circ}C(Note:2)$
MBR1200S		.95V	
Maximum DC			
		0 E A	T - 0500
Reverse Current At	I _R	0.5mA	$T_A = 25^{\circ}C$
Rated DC Blocking		20mA	T _A = 100°C
Voltage			
Typical Junction			
Capacitance	_		
MBR120S-160S	CJ	110pF	Measured at
MBR180S-1150S		30pF	1.0MHz, V _R =4.0V

Note:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.Pulse test: Pulse width 300 sec, Duty cycle 2%



	DIMENSIONS						
DIM	INCHES		M	NOTE			
	MIN	MAX	MIN	MAX			
Α	.140	.152	3.55	3.85			
В	.100	.112	2.55	2.85			
С	.055	.071	1.40	1.80			
D	.037	.053	0.95	1.35			
Е	.020	.039	0.50	1.00			
G	.010		0.25				
Н		.008		.20			

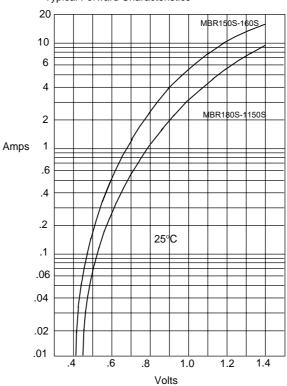


Rer.A 02.2021 Kingwell Corp. 1/3

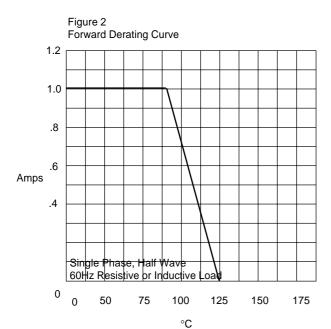
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Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Lead Temperature - °C

Figure 3
Peak Forward Surge Current

60
40
30
20
10
0
1 2 4 6 8 10 20 40 60 80 100

Cycles

Number Of Cycles At 60Hz - Cycles

Rer.A 02.2021 Kingwell Corp. 2/3

Reel Taping Specifications For Surface Mount Devices-SOD-123FL

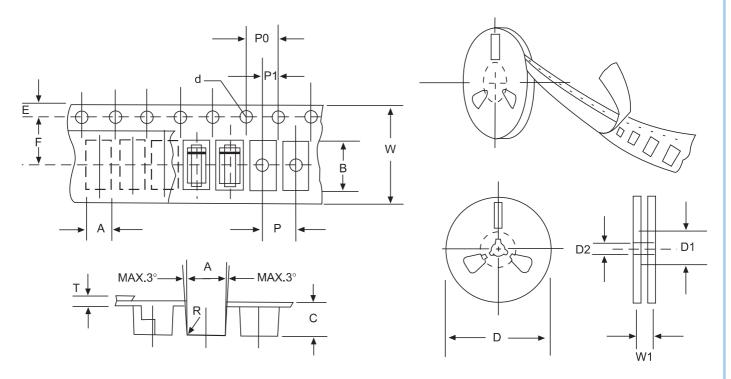


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	SOD-123FLmm(inch)		
Carrier width	А	2.05±0.1(0.081±0.004)		
Carrier length	В	3.95±0.1(0.156±0.004)		
Carrier depth	С	1.45±0.1(0.057±0.004)		
Sprocket hole	d	1.55±0.05(0.061±0.002)		
Reel outside diameter	D	178±2.0(7.0±0.079)		
Reel inner diameter	D1	54±1.0(2.13±0.039)		
Feed hole diameter	D2	13±0.5(0.512±0.020)		
Strocket hole position	E	1.75±0.1(0.069±0.004)		
Punch hole position	F	3.50±0.1(0.138±0.002)		
Punch hole pitch	Р	4.0±0.1(0.157±0.004)		
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)		
Embossment center	P1	2.0±0.1(0.079±0.004)		
Totall tape thickness	Т	0.21±0.25(0.008±0.010)		
Tape width	W	8.0±0.2(0.315±0.008)		
Reel width	W1	10.0±2.0(0.394±0.079)		

NOTE:Devices are packed in accordance with EIA standard RS-481-A and specification given above.

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

Rer.A 02.2021 Kingwell Corp. 3/3