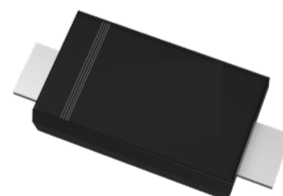


Features

- Low power loss, high efficiency
- High forward surge current capability
- High Current Capability
- For surface mounted applications
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

Applications

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.



SOD-123FL

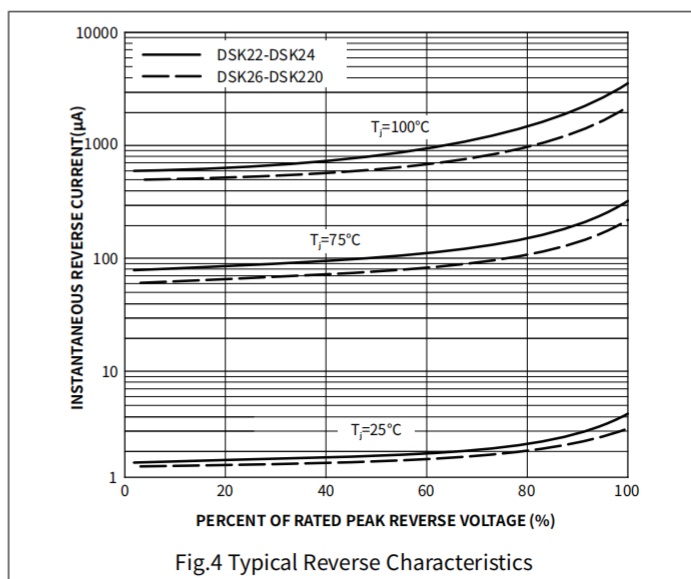
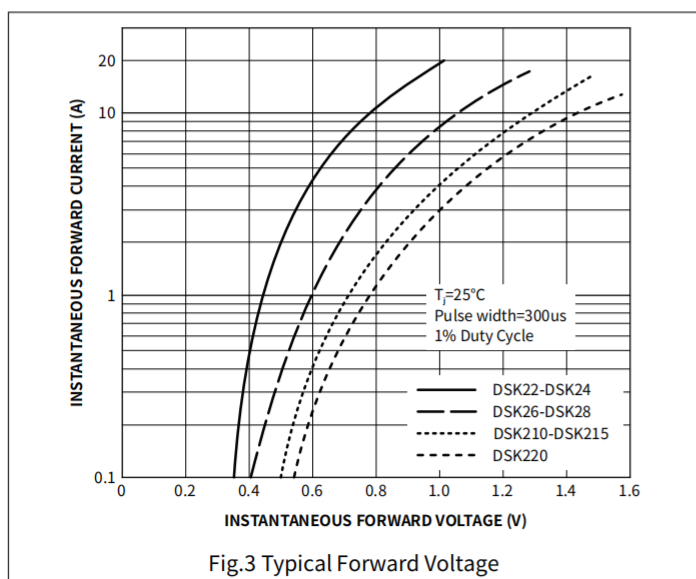
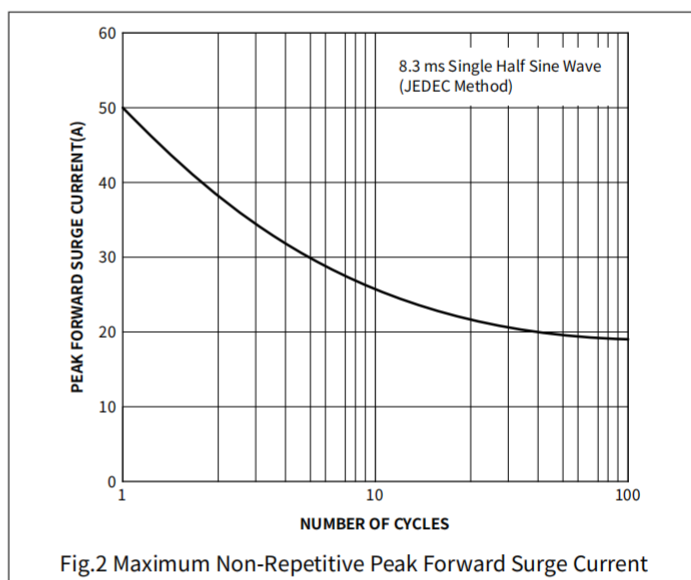
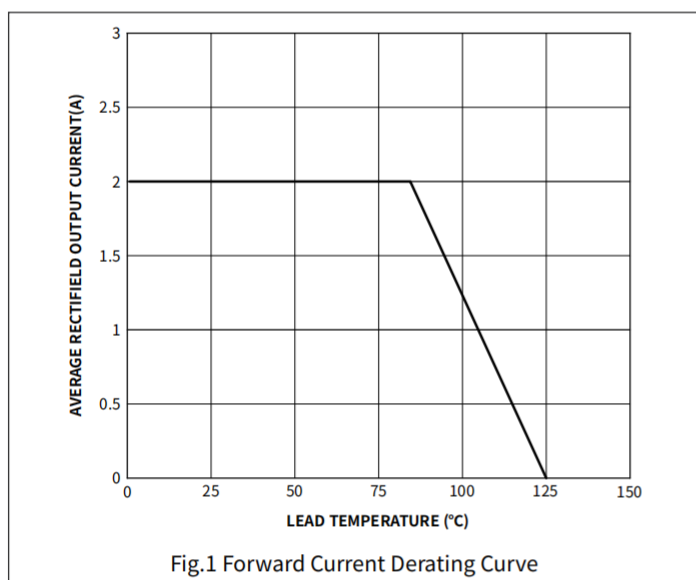
Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DSK22	DSK24	DSK25	DSK26	DSK28	DSK210	DSK215	DSK220
Marking Code			K22	K24	K25	K26	K28	K210	K215	K220
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	20	40	50	60	80	100	150	200
Maximum RMS Voltage	V_{RMS}	V	14	28	35	42	56	70	105	140
Maximum DC Blocking Voltage	V_{DC}	V	20	40	50	60	80	100	150	200
Maximum Average Forward Rectified Current	$I_{F(AV)}$	A	2.0							
Non-repetitive Peak Forward Surge Current @t=8.3ms Half-sine wave	I_{FSM}	A	50							
Storage temperature	T_{stg}	°C	-55 ~ +150							
Junction temperature	T_j	°C	-55 ~ +150							
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	85							

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DSK22	DSK24	DSK25	DSK26	DSK28	DSK210	DSK215	DSK220
Maximum instantaneous forward voltage	$I_F=2.0\text{A}$	V_F	V	0.55		0.70		0.85		0.95	
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ\text{C}$	I_{R1}	mA	0.2				0.05			
	$V_R=V_{DC}, T_A=100^\circ\text{C}$	I_{R2}		20				5.0			
Typical junction capacitance	$V_R=4.0\text{V}, f=1\text{MHz}$	C_J	pF	220				80			

Ratings And Characteristics Curves ($T_a=25^\circ\text{C}$ Unless otherwise specified)



Package Outline Dimensions (SOD -123FL)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.90	1.10	0.035	0.430
B	2.55	2.85	0.100	0.111
C	1.60	1.90	0.063	0.074
D	3.60	3.90	0.031	0.043
E	1.00	1.20	0.031	0.035
F	0.40	0.90	0.047	0.055
G	0.10	0.25	0.003	0.007

Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	1.00	-	0.040	-
K	-	1.90	-	0.074
M	1.50	-	0.059	-