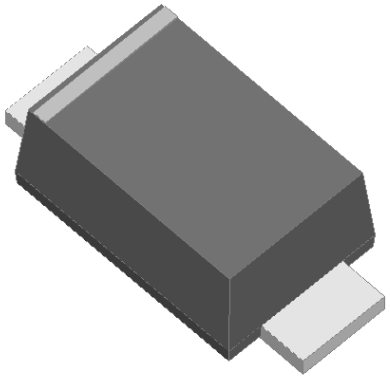
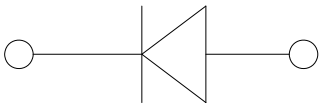
K22 THRU K220

Surface Mount Schottky Rectifier





Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Date

- **Package**: SOD-123FL
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

Maximum Ratings (T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	K22	K23	K24	K25	K26	K28	K210	K215	K220
Device marking code			K22	K23	K24	K25	K26	K28	K210	K215	K220
Repetitive peak reverse voltage	V_{RRM}	V	20	30	40	50	60	80	100	150	200
Average rectified output current @60Hz sine wave, Resistance load, Ta (FIG.1)	I_O	A	2.0								
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	40								
Storage temperature	T_{stg}	℃	-55 ~+150								
Junction temperature	T_j	℃	-55 ~+125			-55 ~+150					

Electrical Characteristics（T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	K22	K23	K24	K25	K26	K28	K210	K215	K220
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	0.55			0.7		0.85		0.9	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I_{RRM}	mA	T_a=25℃	0.50					0.10			
			T_a=100℃	10					5			

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Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	K22	K23	K24	K25	K26	K28	K210	K215	K220
Thermal Resistance	$R_{\theta J-A}$	℃/W	70[1)]								
	$R_{\theta J-L}$		20[1)]								

Note：

(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas.

Characteristics (Typical)

FIG1:Io-TL Curve

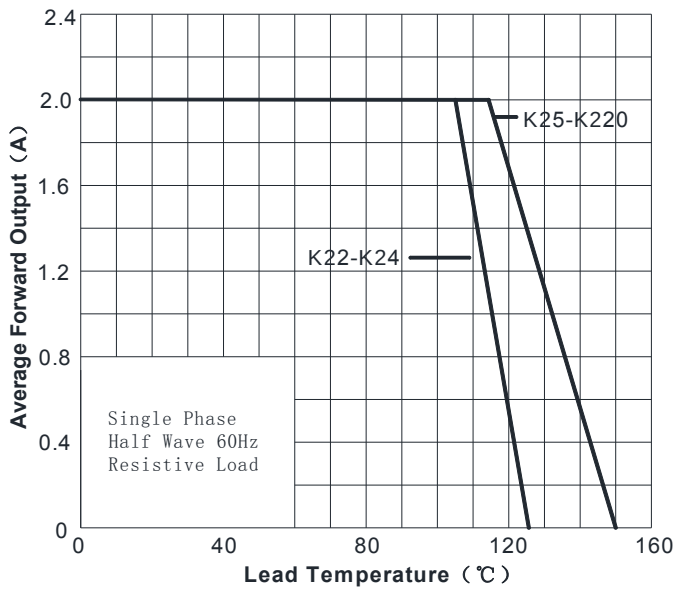


FIG2: Surge Forward Current Capability

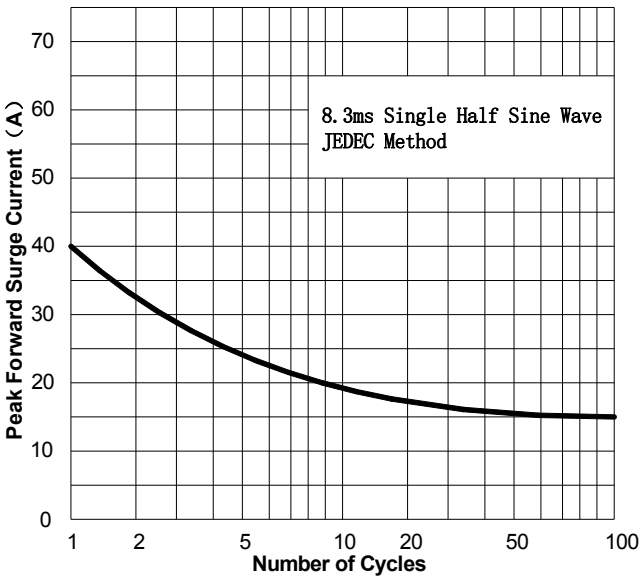


FIG3: Forward Voltage

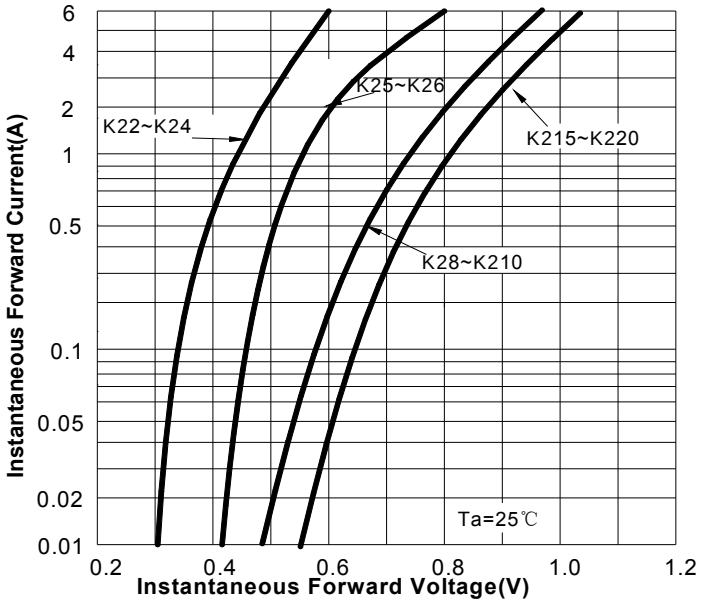
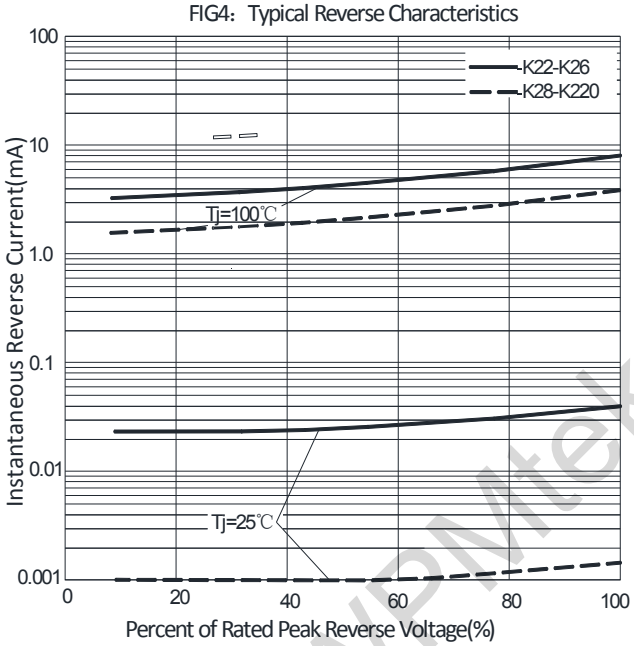


FIG4: Typical Reverse Characteristics



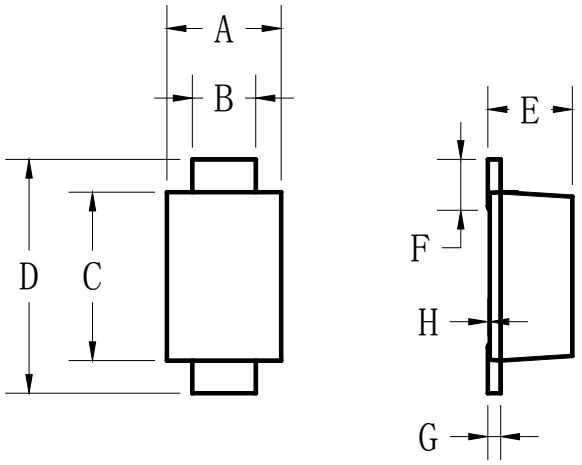
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Ordering Information (Example)

P/N	PKG	QTY
K22-K220	SOD123FL	3000

Outline Dimensions

SOD-123FL



Dimensions in millimeters

SOD-123FL		
Dim	Min	Max
A	1.60	1.90
B	0.90	1.10
C	2.55	2.85
D	3.60	3.90
E	1.00	1.20
F	0.40	0.90
G	0.10	0.25
H	0.02	0.05

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