2 Amp Schottky Barrier Diodes

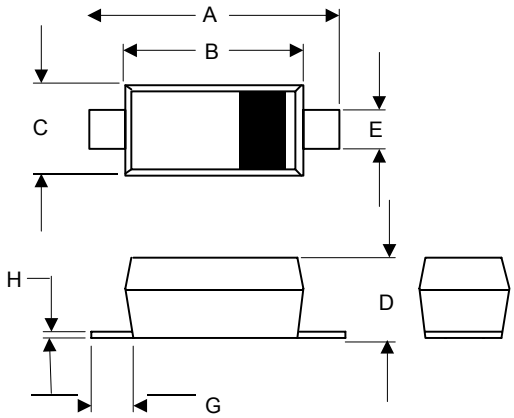
Features:

- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data:

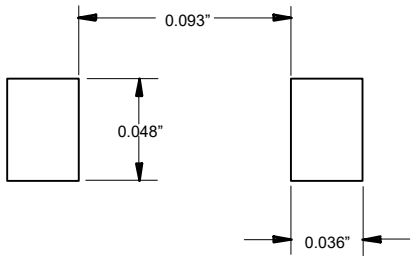
Packaging: SOD-123FL
Marking Code: KWSMD22PL---K22;KWSMD23PL---K23;
KWSMD24PL---K24; KWSMD26PL---K26;
KWSMD210PL---K210;KWSMD220PL---K220;

SOD-123FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	----	.20	

SUGGESTED SOLDER PAD LAYOUT



Maximum Ratings

Symbol	Parameter		Rating	Unit
V_{RMS}	Maximum RMS Voltage	KWSMD22PL	14	V
		KWSMD23PL	21	
		KWSMD24PL	28	
		KWSMD26PL	42	
		KWSMD210PL	70	
		KWSMD220PL	140	
V_{RRM}	Repetitive Peak Reverse Voltage	KWSMD22PL	20	V
		KWSMD23PL	30	
		KWSMD24PL	40	
		KWSMD26PL	60	
		KWSMD210PL	100	
		KWSMD220PL	200	
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at T_L=90 °C		2.0	A
I_{FSM}	Surge Forward Current,halfsine wave 8.3ms		60	A
R_{thJA}	Typical Thermal Resistance(Note2)		60	°C/W
R_{thJC}			30	°C/W
R_{thJL}			21	°C/W
P_D	Power Dissipation		1.68	W
T_J	Junction Temperature		-65 to +150	°C
T_{STG}	Storage Temperature		-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Typ	Max	Units
V_F	Forward Voltag (@2A dc)	KWSMD22PL~23PL	---	---	0.45	V
		KWSMD24PL	---	---	0.50	
		KWSMD26PL	---	---	0.65	
		KWSMD210PL~220PL	---	---	0.85	
I_R	Maximum DC Reverse Current		---	---	0.2	mA
C_j	Typical Junction Capacitance @f=1.0MHz,Vr=4V		---	210	---	pF

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.
2. Thermal Resistance:PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.

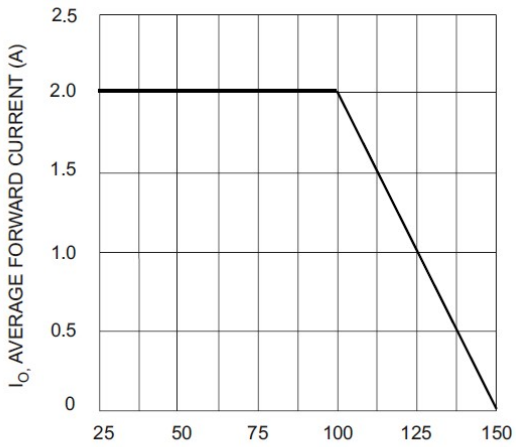


Fig. 1 Forward Current Derating Curve

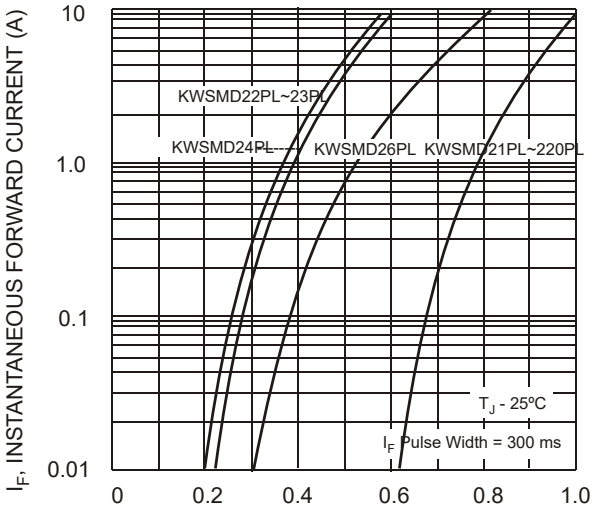


Fig. 2 Typical Forward Characteristics

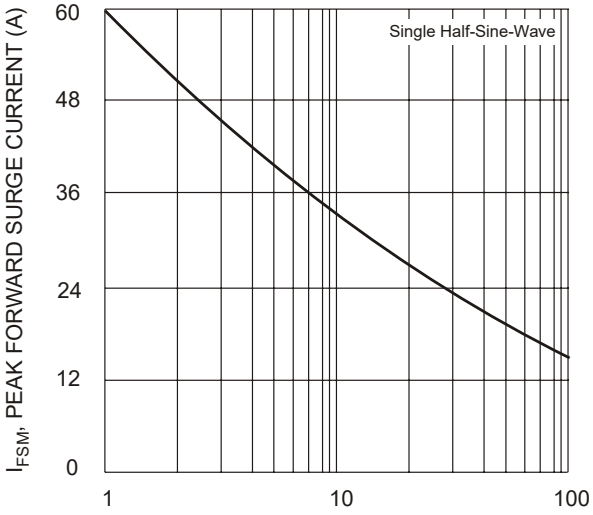


Fig. 3 Max Non-Repetitive Peak Forward Surge Current