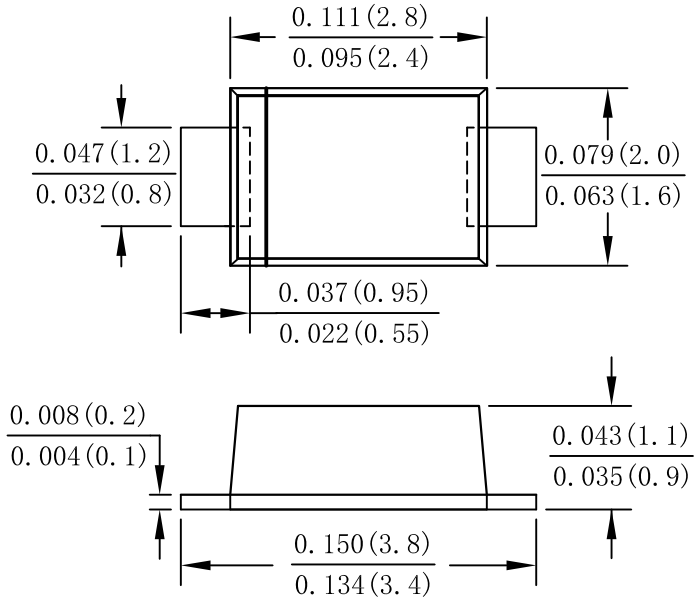
DSK22 THRU DSK220

Single Phase 2.0AMP Surface Mount Schottky Barrier Rectifier

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- High temperature soldering guaranteed: 260℃/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Case: SOD-123FL



Dimensions in inches and (millimeters)

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	DS K22	DS K23	DS K24	DS K25	DS K26	DS K28	DS K210	DS K215	DS K220	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	20	30	40	50	60	80	100	150	200	V
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Average Rectified Output Current @T_L=90℃	$I_{F(AV)}$	2.0									A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50									A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	10.375									A^2s
Forward Voltage per element @IF=2.0A	V_{FM}	0.55			0.7		0.85		0.92		V
Peak Reverse Current @T_A =25℃ At Rated DC Blocking Voltage @T_A =100 ℃	I_R	0.1					0.05				mA
		10					5				
Typical Junction Capacitance (Note 1)	C_J	80					40				pF
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	110 15 20									℃/W
Operating junction temperature range	T_J	-55to+150									℃
Operating and Storage Temperature Range	T_{STG}	-55to+150									℃

Note:1. Measured at 1MHZ and applied reverse voltage of 4.0V D.C.

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Fig. 1 Typical Forward Current Derating Curve

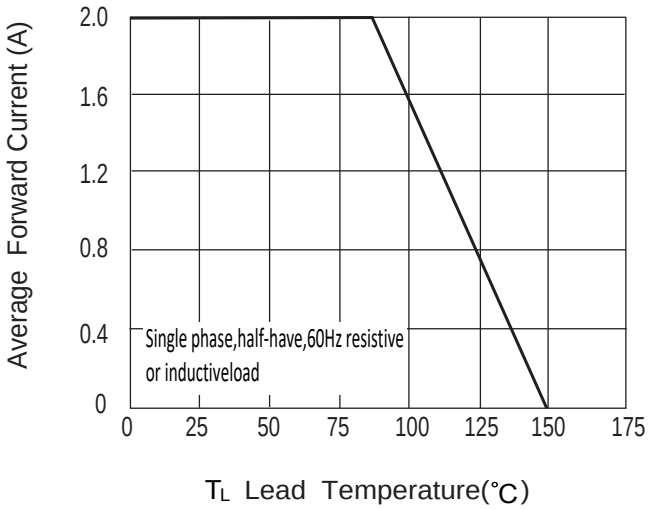

Fig. 2 Typical Instantaneous Forward Characteristics

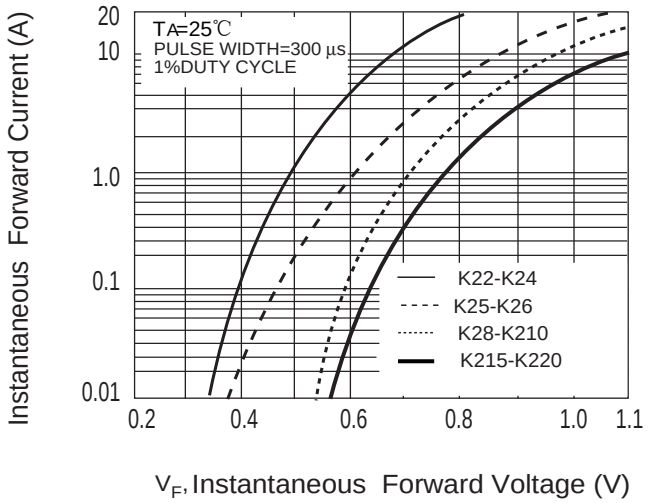

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

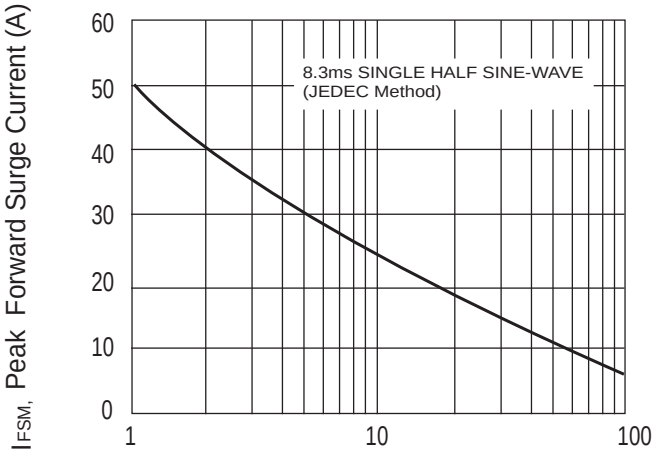

Fig.4 Typical Reverse Chracteristics

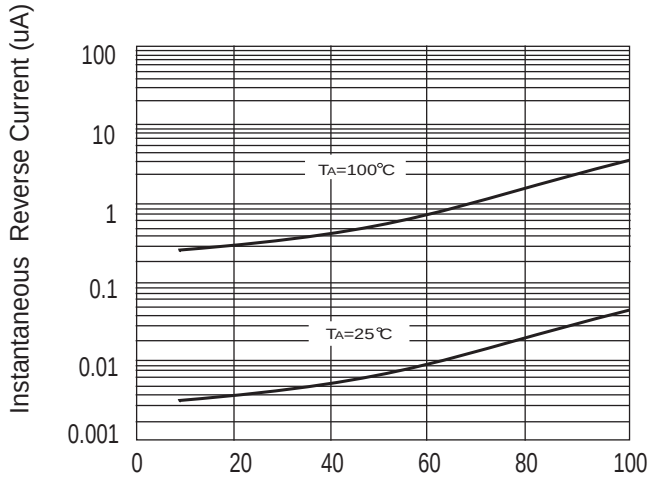

Fig.5 Typical Capacitance