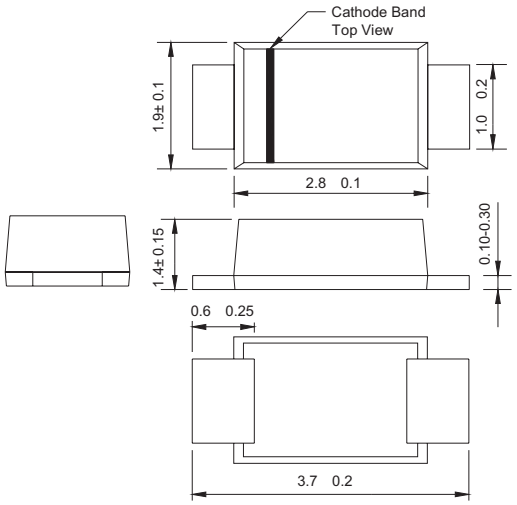
SCHOTTKY BARRIER RECTIFIER
DSK12 Thru DSK110
1.0 Amps

RoHS

FEATURES

- Low profile package
- Ideal for automated placement
- Ultra fast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering: 260°C / 10 sec at terminals



SOD-123FL

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Molded plastic body (JEDEC SOD-123FL)
- Terminals: Solder plated
- Polarity: Laser band denotes cathode end
- Weight: 0.017 grams

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	DSK12	DSK13	DSK14	DSK15	DSK16	DSK18	DSK110	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @ T_L = 90˚C	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single Half-Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25							A
Maximum Instantaneous I_F = 1.0A	V_F	0.55			0.70		0.85		V
Maximum DC Reverse Current @ T_A = 25℃ at rated DC Blocking Voltage @ T_A = 100ºC	I_R	1.0 10							mA
Typical Junction Capacitance at 4.0 V, 1MHz	C_J	110							--
Operating Temperature Range	T_J	-65 to +125							℃
Storage Temperature Range	T_{STG}	-65 to +125							℃

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RATING & CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

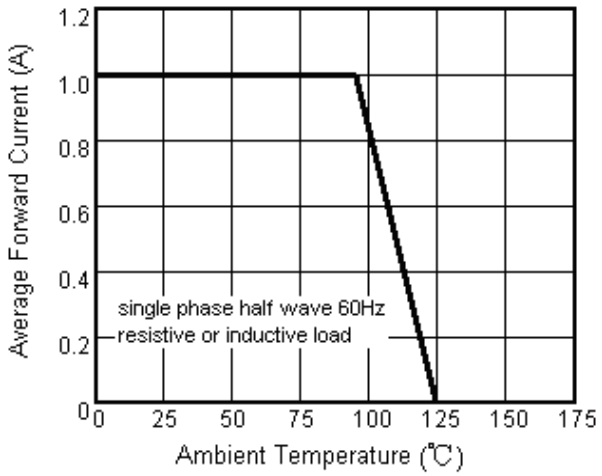


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

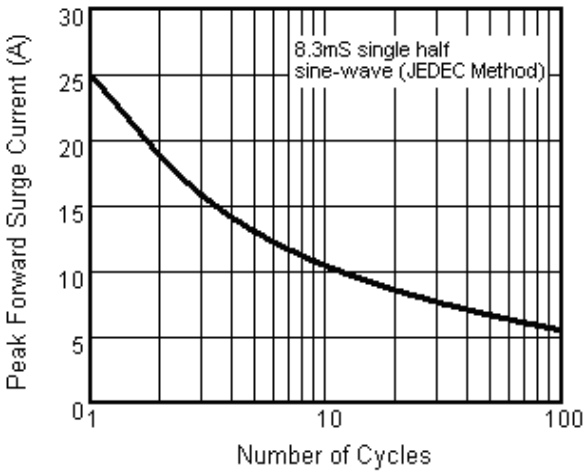


Fig.3 Typical Instantaneous Forward Characteristics

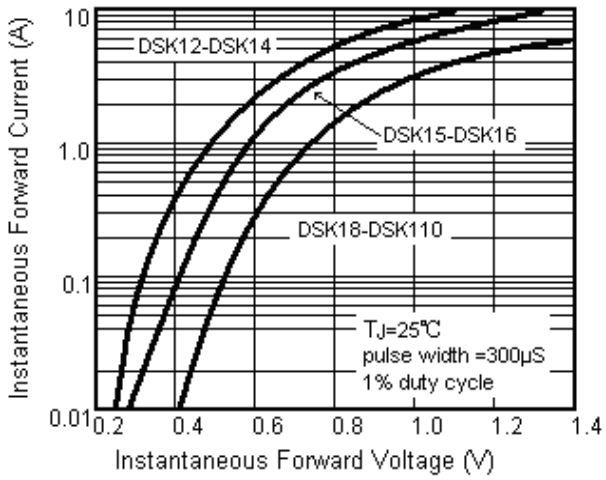


Fig.4 Typical Reverse Characteristics

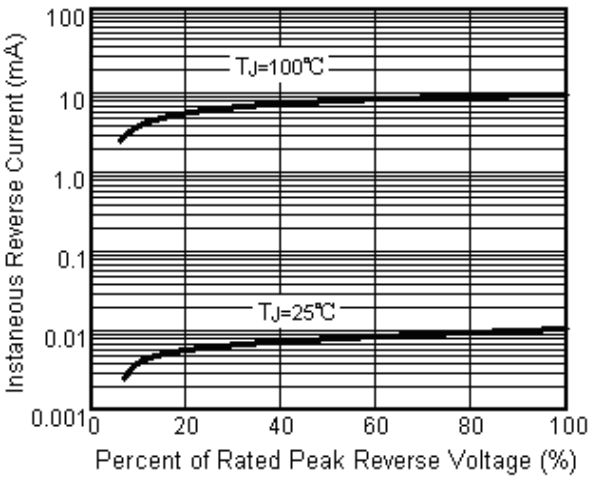
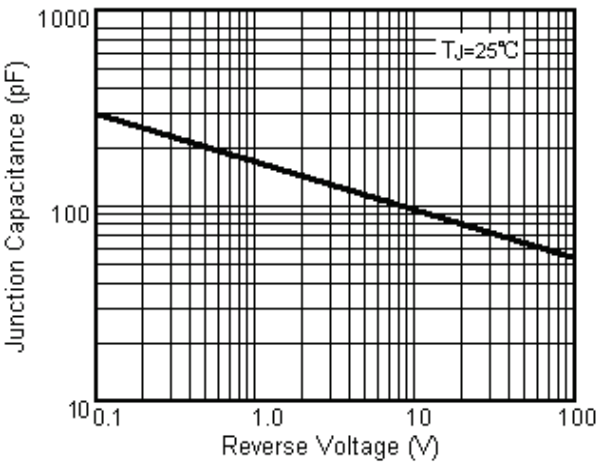


Fig.5 Typical Junction Capacitance



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