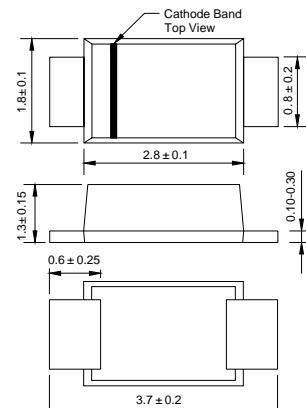




SS32 - SS310

SOD-123FL



Dimensions in millimeters

Schottky Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value								Units
		32	33	34	35	36	38	39	310	
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
I _{F(AV)}	Average Rectified Forward Current, @ T _A = 75°C						3.0			A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave						100			A
T _{stg}	Storage Temperature Range						-55 to +150			°C
T _J	Operating Junction Temperature						-55 to +150			°C

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

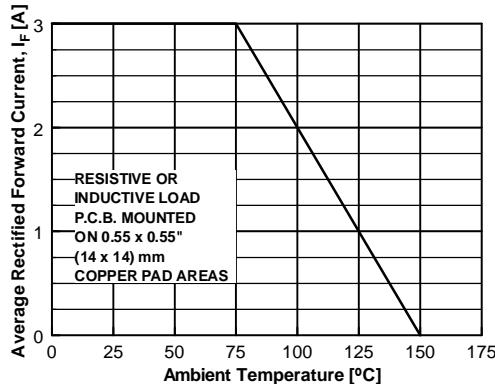
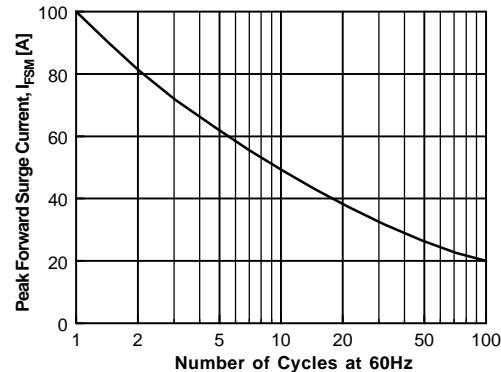
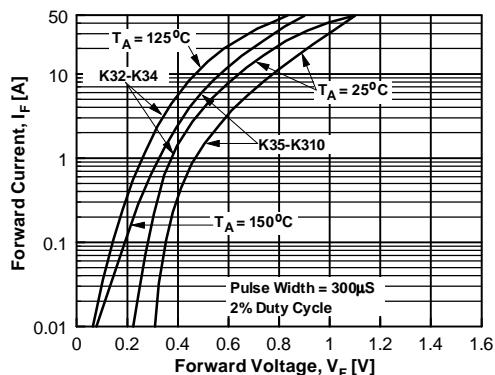
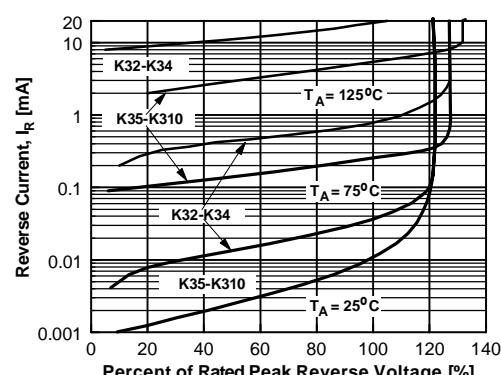
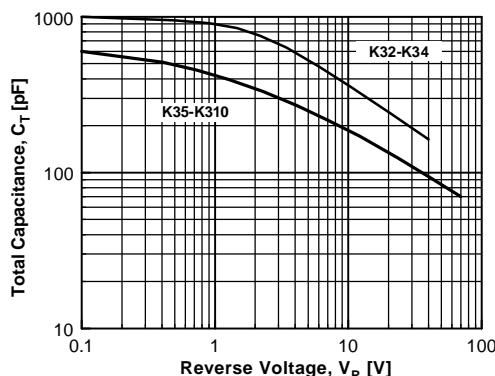
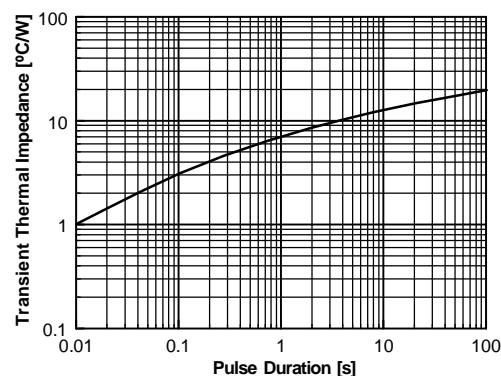
Symbol	Parameter	Value								Units
P _D	Power Dissipation	2.27								W
R _{θJA}	Thermal Resistance, Junction to Ambient *	55								°C/W
R _{θJL}	Thermal Resistance, Junction to Lead	17								°C/W

* Device mounted on FR-4 PCB 0.55 x 0.55" (14 x 14 mm).

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Device								Units
		32	33	34	35	36	38	39	310	
V _F	Forward Voltage @ 3.0 A	550		750		850				mV
I _R	Reverse Current @ rated V _R	T _A = 25°C	0.5							mA
		T _A = 100°C	20		10					mA

**Typical Characteristics****Figure 1. Forward Current Derating Curve****Schottky Rectifiers**
(continued)**Figure 2. Non-Repetitive Surge Current****Figure 3. Forward Voltage Characteristics****Figure 4. Reverse Current vs Reverse Voltage****Figure 5. Total Capacitance****Figure 6. Thermal Impedance Characteristics**