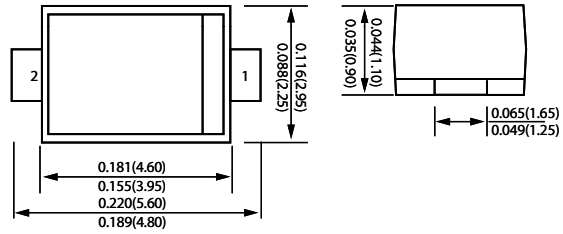
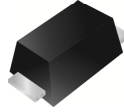


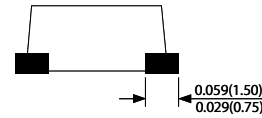
FEATURES

- * Low profile package
- * Ideal for automated placement
- * Guard Ring for over voltage protection
- * Low forward voltage drop
- * RoHS Product for packing code suffix "G", Halogen free product for packing code suffix "H"



MECHANICAL DATA

- * Case: Molded plastic, DO-221AC/ SMAF
- * Epoxy: UL 94V-O rate flame retardant
- * Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- * Mounting position: Cathod Band
- * Weight: Approximated 0.032 gram.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive of inductive load.
For capacitive load, derate current by 20%

RATINGS	SYMBOL	SK12AF	SK13AF	SK14AF	SK15AF	SK16AF	SK18AF	SK110AF	SK115AF	SK120AF	UNIT
Marking Code		12AF	13AF	14AF	15AF	16AF	18AF	110AF	115AF	120AF	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length (See Fig. 1)	I _O	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30									Amps
Typical Thermal Resistance (Note 1)	R _{ΘJA} /R _{ΘJC}	120/90									°C/W
Typical Junction Capacitance (Note 2)	C _J	90	70	60	50	35					pF
Operating Temperature Range	T _J	-55 to +125						-55 to +150			°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

CHARACTERISTICS	SYMBOL	SK12AF	SK13AF	SK14AF	SK15AF	SK16AF	SK18AF	SK110AF	SK115AF	SK120AF	UNIT
Maximum Instantaneous Forward Voltage at 1.0A DC(Note)	V _F	0.45	0.5	0.70	0.85	0.87	0.90				Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	@TC=25°C 0.5					@TC=100°C 10				mAmps

NOTES : 1. Thermal Resistance for Junction to Ambient: Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.
Thermal Resistance for Junction to Case
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Measured at Pulse Width 300µs, Duty Cycle 2%.

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

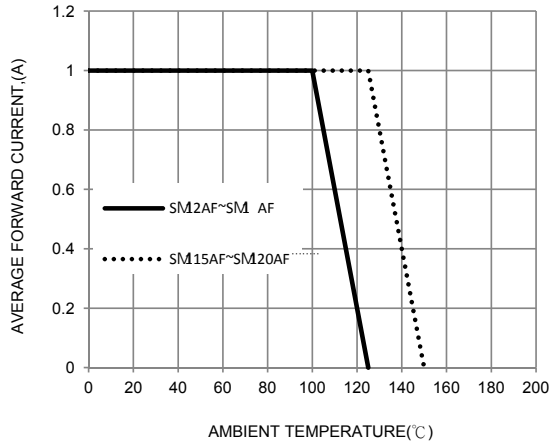


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

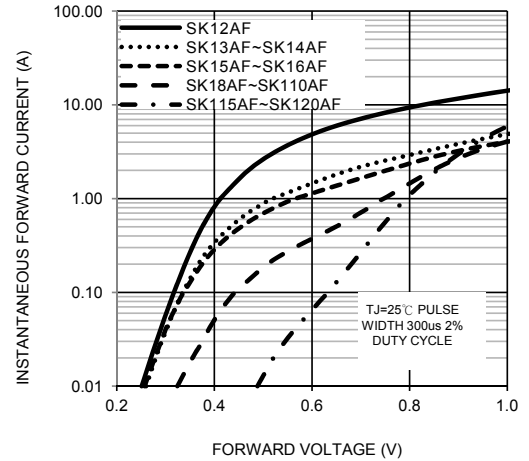


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

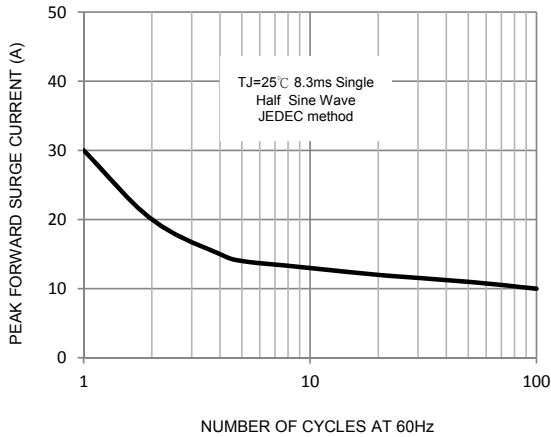


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

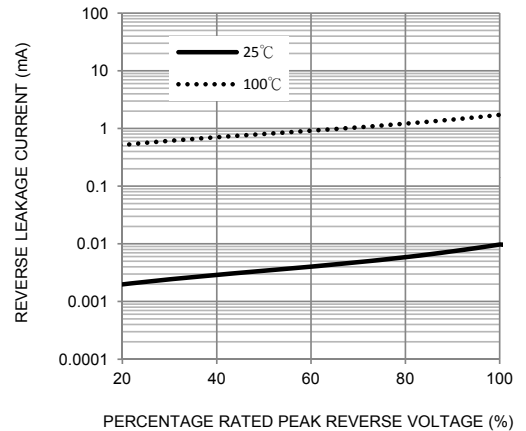


FIG. 5-TYPICAL JUNCTION CAPACITANCE

