WILLAS

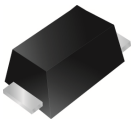
SK22AF
THRU
SK220AF

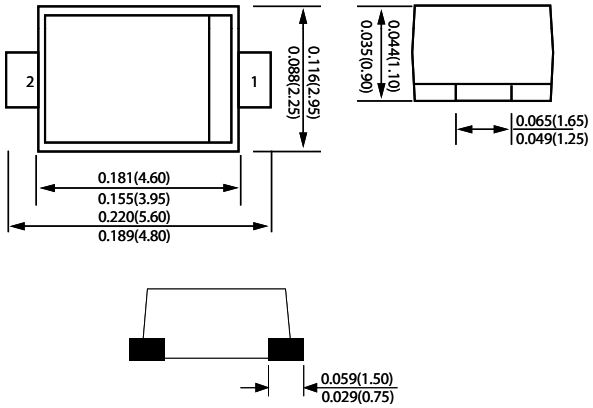
Pb Free Product

2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V-200V
SMAF(DO-221AC) PACKAGE

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"





Dimensions in inches and (millimeters)

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.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SYMBOL	SK22AF	SK23AF	SK24AF	SK25AF	SK26AF	SK28AF	SK210AF	SK215AF	SK220AF	UNIT
Marking Code		22AF	23AF	24AF	25AF	26AF	28AF	210AF	215AF	220AF	
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	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50									Amps
Typical Thermal Resistance (Note 1)	$R_{\Theta JA}/R_{\Theta JC}$	120/90									℃/W
Typical Junction Capacitance (Note 2)	C_J	70			50				40		pF
Operating Temperature Range	T_J	-55 to +125							-55 to +150		℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

CHARACTERISTICS		SYMBOL	SK22AF	SK23AF	SK24AF	SK25AF	SK26AF	SK28AF	SK210AF	SK215AF	SK220AF	UNIT
Maximum Instantaneous Forward Voltage at 2.0A DC(Note		V_F	0.45	0.5		0.70		0.85		0.87	0.90	Volts
Maximum Average Reverse Current at	@TC=25℃	I_R	0.5					0.2				mAmps
Rated DC Blocking Voltage	@TC=100℃		15					5				

NOTES :1. Thermal Resistance forJunction 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%.

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FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

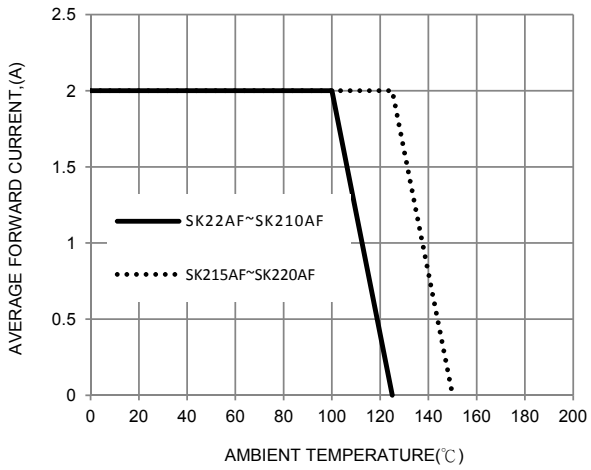

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

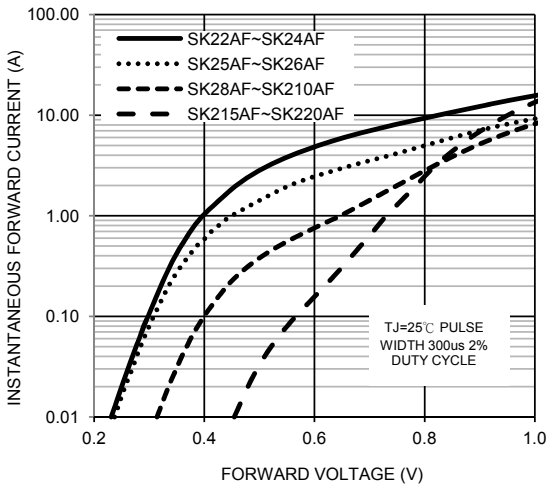

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

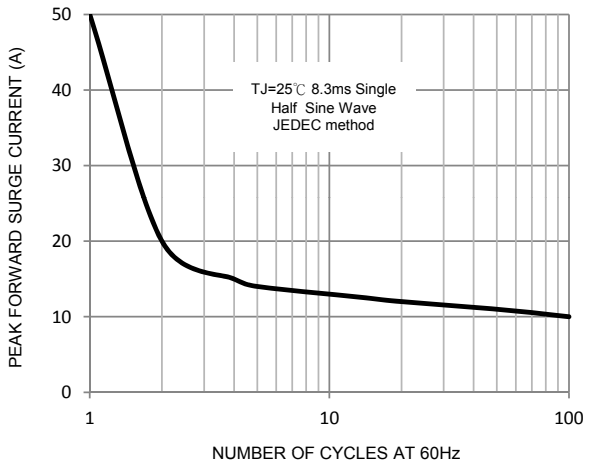

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

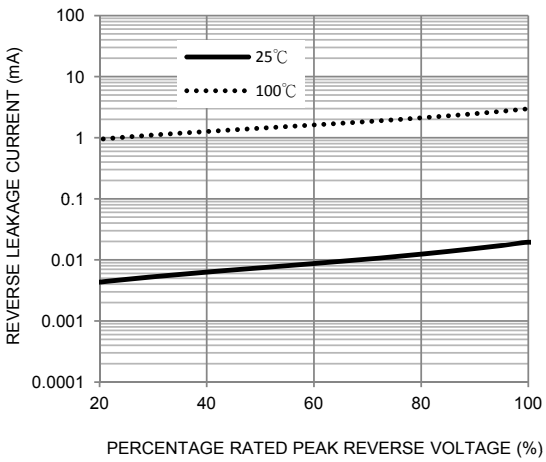

FIG. 5-TYPICAL JUNCTION CAPACITANCE