

## Features

- Low profile Surface Mount package
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Built-in strain relief
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guarding for overvoltage protection
- High Temp Soldering: 250°C for 10 Seconds At Terminals

## 3 Amp Schottky Rectifier 20 to 60 Volts

## Maximum Ratings

- JEDEC DO-214AC molded plastic body
- Solder plated, solderable per MILSTD750, Method 2026
- Color band denotes cathode end

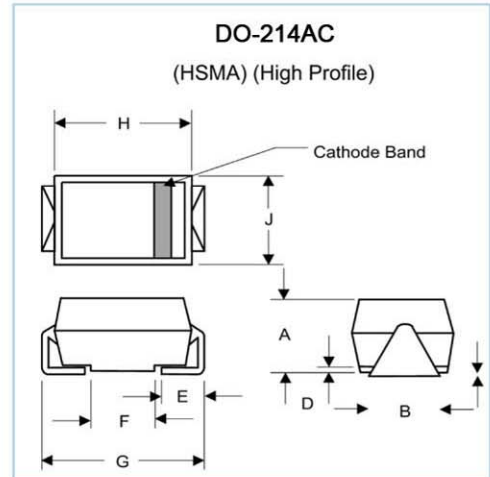
SK Part Number	Device Marking	Maximum Repetitive Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B320A	B320A	20V	14V	20V
B330A	B330A	30V	21V	30V
B340A	B340A	40V	28V	40V
B350A	B350A	50V	35V	50V
B360A	B360A	60V	42V	60V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	3.0A	$T_J = 25^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage B320A-B340A B350A-B360A	$V_F$	.50V .75V	$I_{FM} = 3.0A^{(1)}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage B320A-B340A B350A-B360A	$I_R$	.5mA 20mA 10mA	$T_J = 25^\circ\text{C}^{(1)}$ $T_J = 100^\circ\text{C}$
Typical Thermal resistance <sup>(2)</sup>	$R_{JA}$ $R_{JL}$	55°C/W 17°C/W	
Operating junction temperature range	$T_J$	-55 to +150°C	
Storage temperature range	$T_{STG}$	-55 to +150°C	

(1) Pulse test: Pulse width 300 usec, Duty cycle 1%

(2) P.C.B. mounted 0.55x0.55"(14x14mm) copper pad areas



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.078	.116	1.98	2.95	
B	.067	.089	1.70	2.25	
C	.002	.008	.05	.20	
D	—	.02	—	.51	
E	.035	.055	.89	1.40	
F	.065	.096	1.65	2.45	
G	.205	.224	5.21	5.69	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

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FIG. 1 - FORWARD CURRENT DERATING CURVE

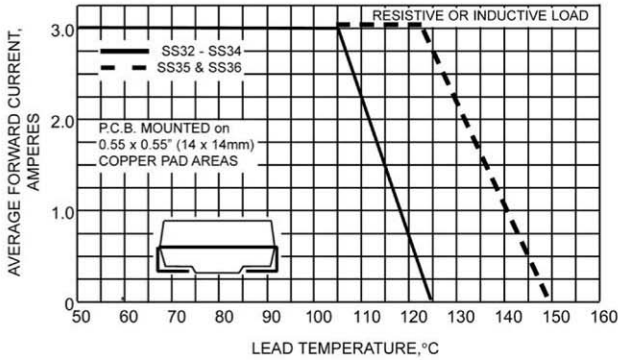


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

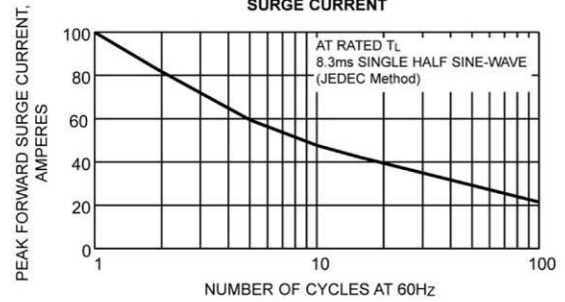


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

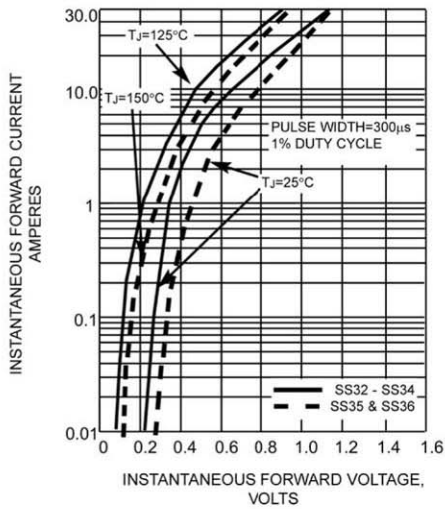


FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

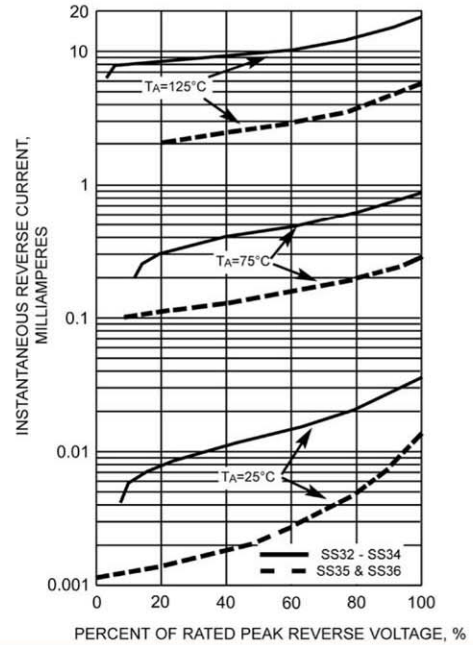


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

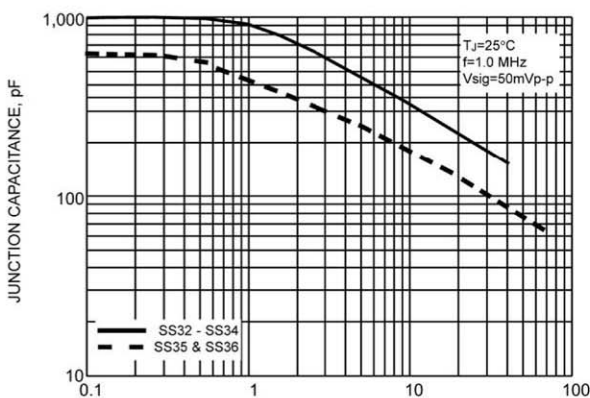
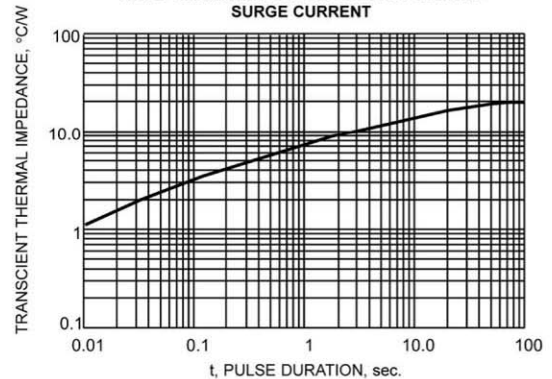


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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