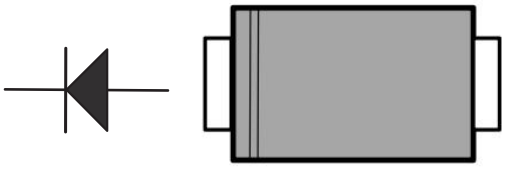
Surface Mount Schottky Barrier Rectifier

Parameter	Value	Unit
V_{RRM}	20~200	V
$I_{F(AV)}$	2.0	A



DO-214AC/SMA

Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

Applications

- For use in low-voltage, high-frequency inverters, free-wheeling applications, DC/DC converters, and polarity protection circuits.

Absolute Maximum Ratings and Characteristics (at TJ = 25°C unless otherwise specified)

Parameter	Symbol	SS22A	SS24A	SS26A	SS28A	SS210A	SS212A	SS215A	SS220A	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50								A
Max Instantaneous Forward Voltage at 2A	V_F	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current Ta= 25°C at Rated DC Reverse Voltage Ta=100°C	I_R	0.5 5			0.3 3					mA
Typical Junction Capacitance(1)	C_j	220		80						pF
Typical Thermal Resistance(2)	$R_{\theta JA}$	80								°C/W
Operating Junction Temperature Range	T_j	-55 ~ +125		-55 ~ +150						°C
Storage Temperature Range	T_{stg}	-55 ~ +150								°C

Notes:

(1) Measured at1 MHz and applied reverse voltage of 4V D.C

(2) P.C.B. mounted with 2 .0" X 2 .0" (5 X 5 cm) copper pad areas

Typical characteristics

Fig.1 Forward Current Derating Curve

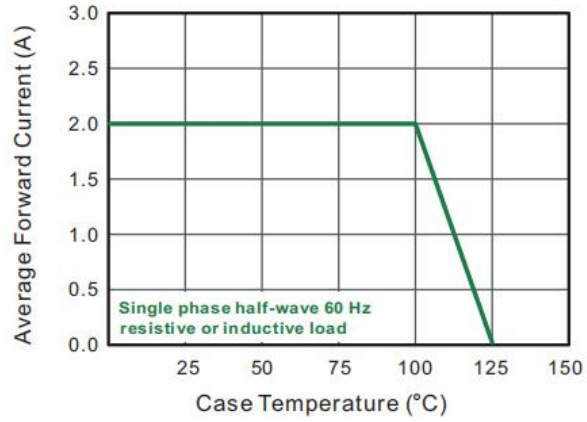


Fig.2 Typical Reverse Characteristics

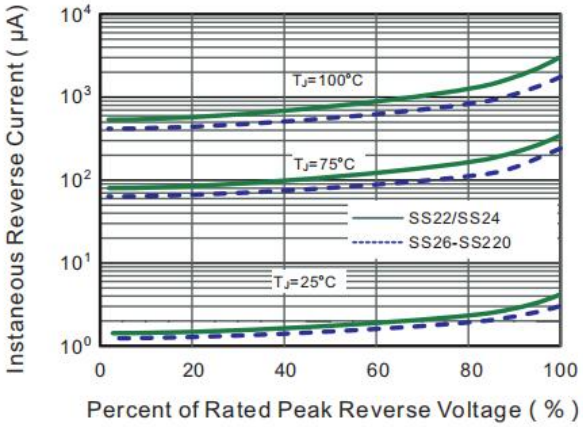


Fig.3 Typical Forward Characteristic

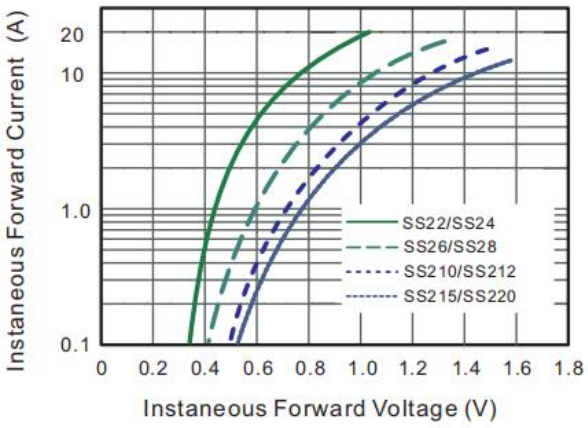


Fig.4 Typical Junction Capacitance

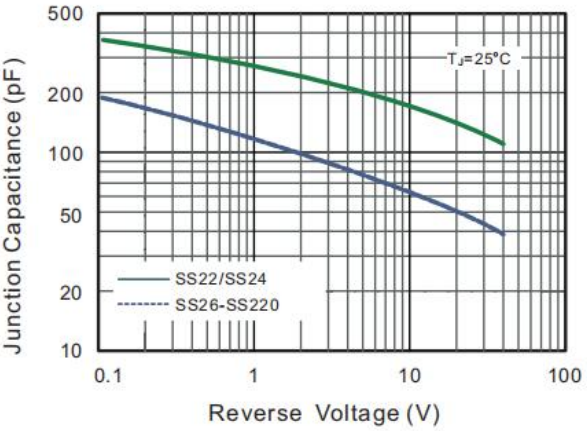


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

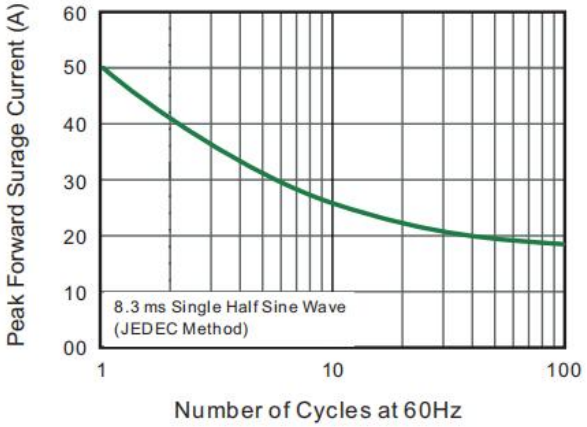
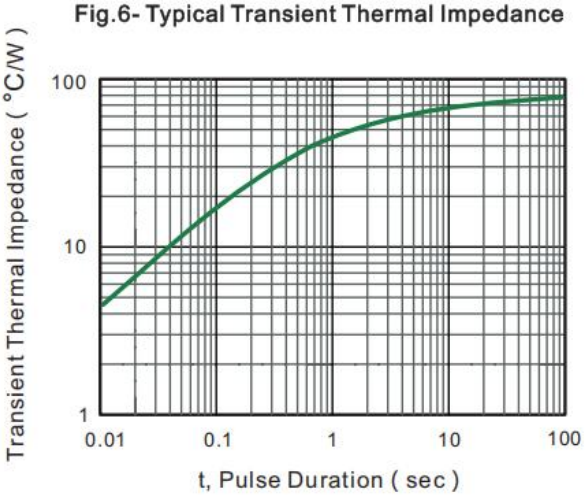


Fig.6- Typical Transient Thermal Impedance



Package outlines

Plastic surface mounted package; 2 leads

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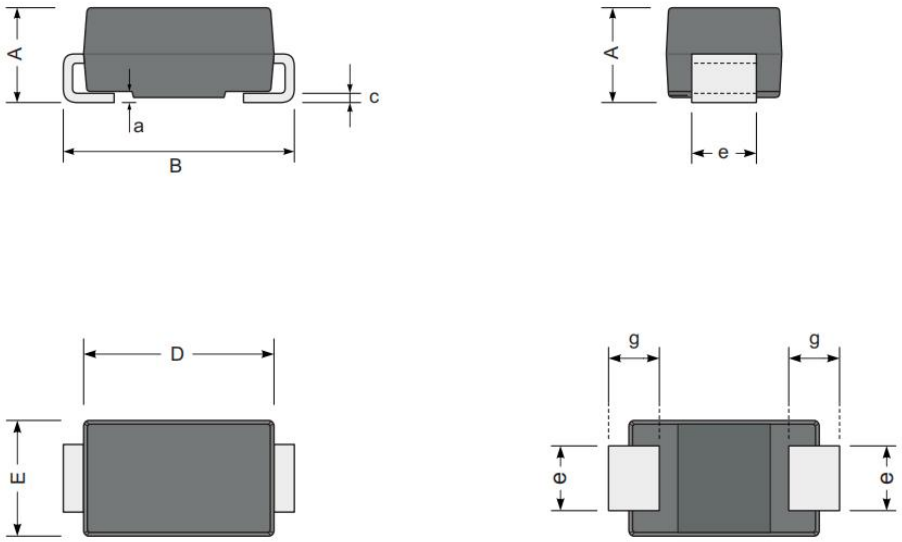
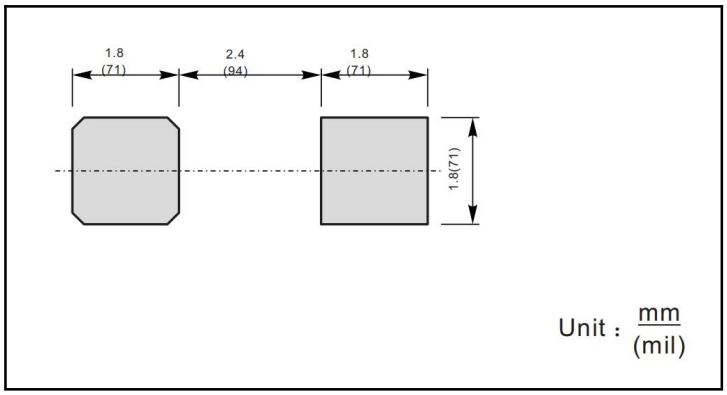


UNIT		A	D	E	B	c	e	g	a
mm	max	2.2	4.5	2.8	5.3	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.4	4.8	0.15	1.3	0.9	
mil	max	87	181	110	209	12	63	59	12
	min	75	157	94	189	6	51	35	

The recommended mounting pad size



Marking

Type number	Marking code
SS22A	SS22
SS24A	SS24
SS26A	SS26
SS28A	SS28
SS210A	SS210
SS212A	SS212
SS215A	SS215
SS220A	SS220

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