



JSPJ340A~JSPJ3200A

3A Schottky Barrier Rectifier

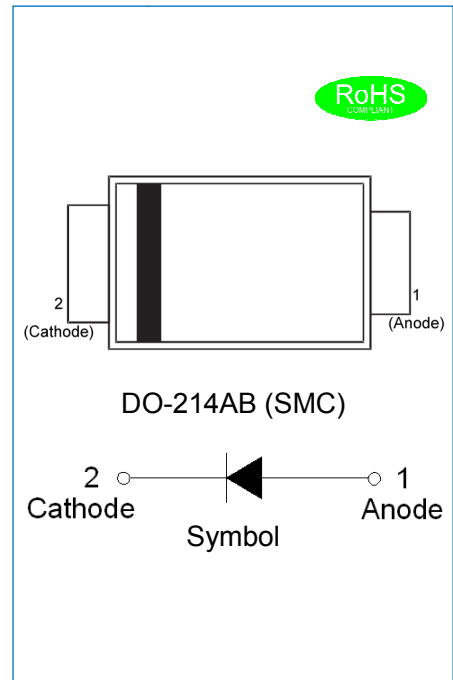
Rev.1.0

DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Exceeds environmental standards of MIL-S-19500/228
- ✧ For surface mounted applications in order to optimize board space
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive
- ✧ Ultra low forward voltage drop
- ✧ Low power losses, high efficiency operation
- ✧ High current capability and surge capability
- ✧ Low thermal resistance package

MECHANICAL DATA

- ✧ Case: JEDEC SMC molded plastic
- ✧ Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- ✧ Polarity: Color band denotes cathode end



ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

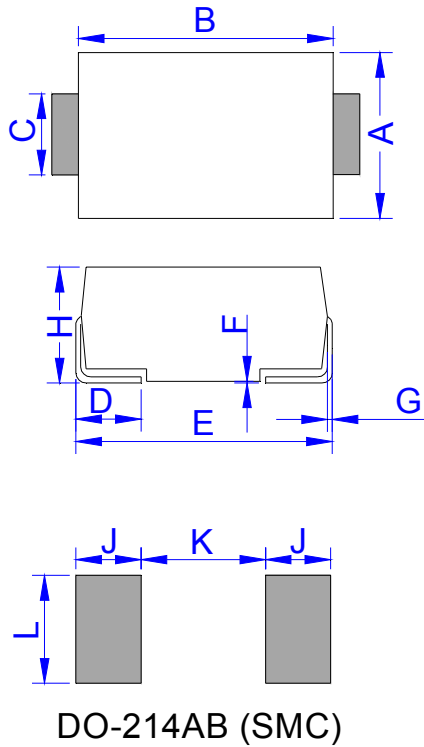
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter		Symbol	JSPJ 340A	JSPJ 360A	JSPJ 3100A	JSPJ 3150A	JSPJ 3200A	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	40	60	100	150	200	V
Maximum RMS voltage		V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage		V _{DC}	40	60	100	150	200	V
Maximum average forward current		I _{F(AV)}	3.0					A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	80					A
Maximum forward voltage @ I _F =3A		V _F	0.55	0.7	0.85	0.90		V
Maximum DC reverse current at rated DC blocking voltage	T _A =25℃	I _R	0.1					mA
	T _A =100℃		10		8			
Typical junction capacitance V _R =4.0V, f=1MHz		C _J	300		200			pF
Operating junction temperature range		T _j	-55 to +125	-55 to +150				℃
Storage temperature range		T _{stg}	-55 to +150					℃

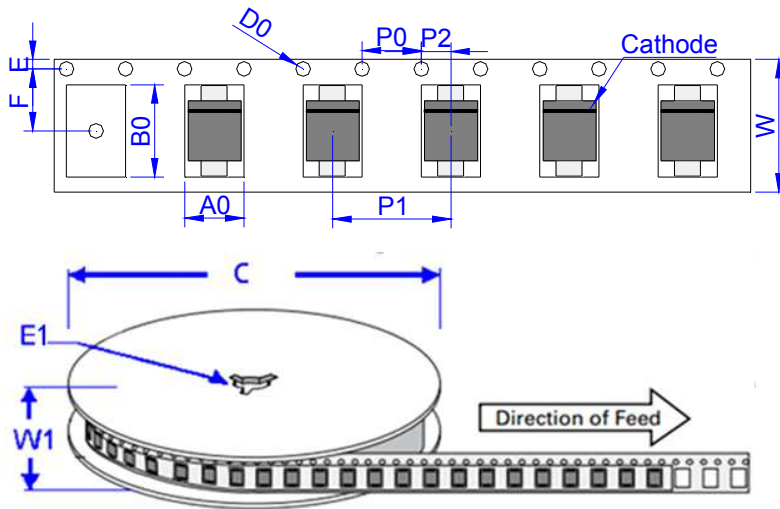
THERMAL RESISTANCES

Symbol	Parameter	JSPJ 340A	JSPJ 360A	JSPJ 3100A	JSPJ 3150A	JSPJ 3200A	Unit
$R_{th(j-a)}$	Junction to ambient (note1)	45					°C/W

Note1: Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted

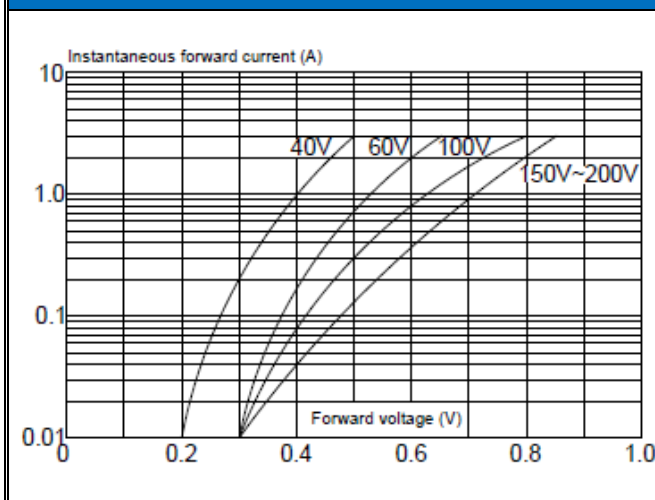
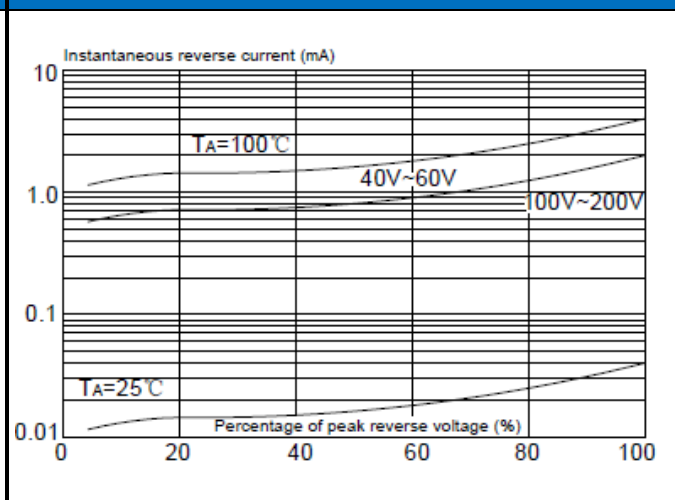
PACKAGE MECHANICAL DATA


Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.75	6.25	0.226	0.246
B	6.90	7.40	0.272	0.291
C	2.75	3.25	0.108	0.128
D	0.95	1.52	0.037	0.060
E	7.70	8.20	0.303	0.323
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.15	2.62	0.085	0.103
J	2.40		0.094	
K		4.20		0.165
L	3.30		0.130	

TAPE AND REEL SPECIFICATION-SMC


Ref.	Dimensions	
	Millimeters	Inches
A0	6.05 ± 0.3	0.238 ± 0.012
B0	8.31 ± 0.3	0.327 ± 0.012
C	330.0	13.0
D0	1.55 ± 0.1	0.061 ± 0.004
E	1.75 ± 0.2	0.069 ± 0.008
E1	13.3 ± 0.3	0.524 ± 0.012
F	7.50 ± 0.2	0.295 ± 0.008
P0	4.00 ± 0.2	0.157 ± 0.008
P1	8.00 ± 0.2	0.3145 ± 0.008
P2	2.00 ± 0.2	0.079 ± 0.008
W	16.0 ± 0.2	0.630 ± 0.008
W1	19.7 ± 2.0	0.776 ± 0.079

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.26	3,000	48,000	330

CHARACTERISTICS CURVE
FIG.1: Typical forward characteristics (25°C)

FIG.2: Typical reverse characteristics




CHARACTERISTICS CURVE

FIG.3: Maximum non-repetitive peak forward surge current

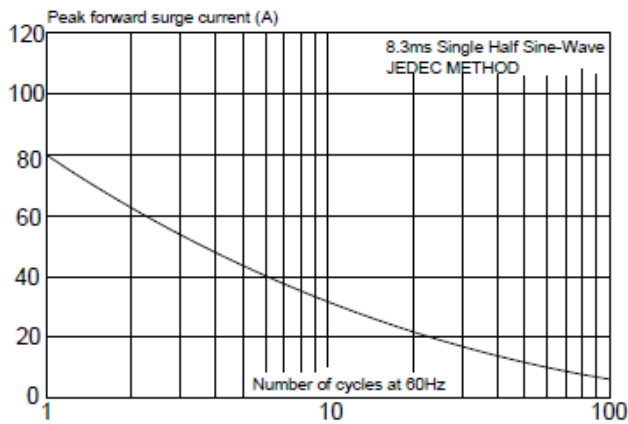


FIG.4: Forward current derating curve

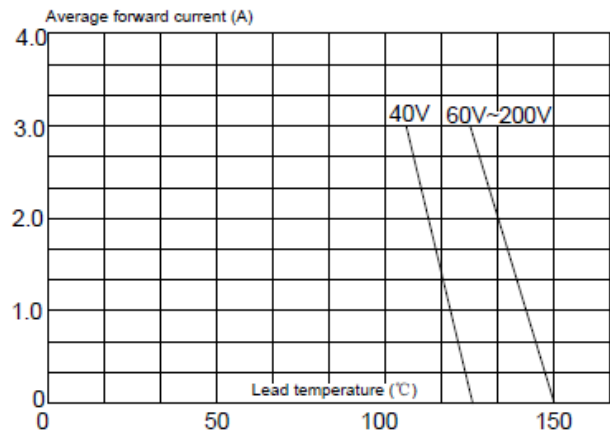


FIG.5: Maximum transient thermal impedance

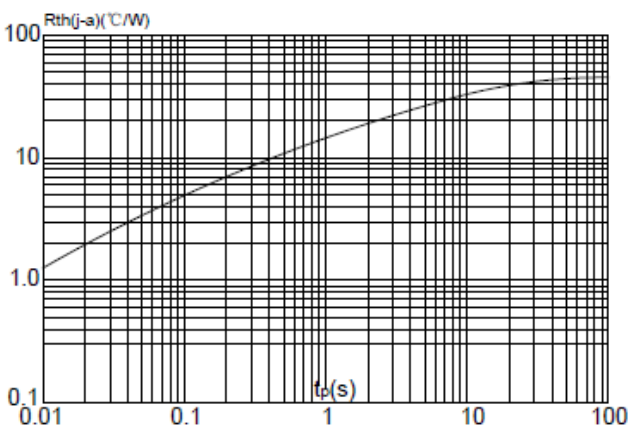
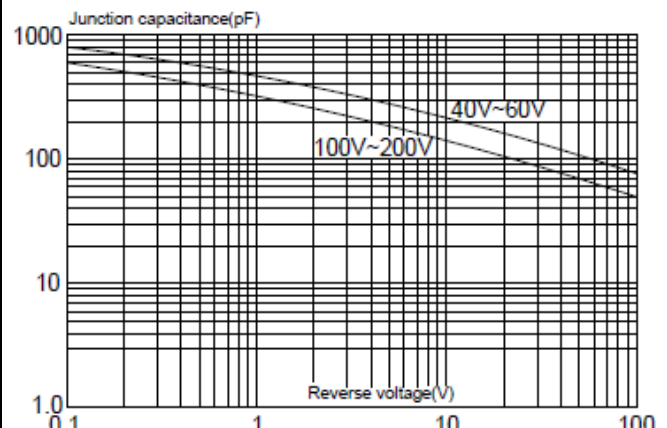


FIG.6: Typical junction capacitance



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