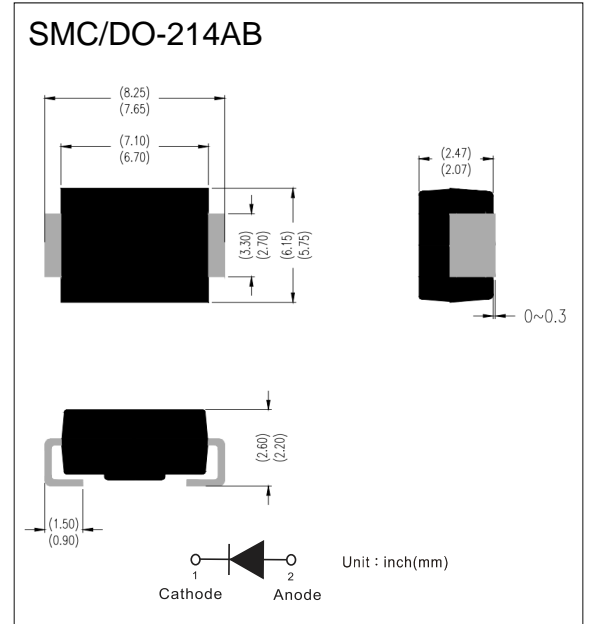


## Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Compliant with RoHS standards, halogen-free

## Mechanical Data

- Package: SMC/DO-214AB
- Terminals: Tin plated leads, solderable per
- Polarity: Cathode line denotes the cathode end



## Maximum Ratings (T<sub>a</sub>=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	B540C	B560C
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	40	60
Average Rectified Output Current @60Hz sine wave, Resistance load, T <sub>a</sub> (FIG.1)	I <sub>O</sub>	A	5.0	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T <sub>a</sub> =25℃	I <sub>FSM</sub>	A	100	
Storage Temperature	T <sub>stg</sub>	℃	-55 ~+150	
Junction Temperature	T <sub>j</sub>	℃	-55 ~+150	



Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	B540C	B560C
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=5.0A$	0.55	0.70
Maximum DC reverse current at rated DC blocking voltage per diode	$I_R$	mA	$T_a=25^{\circ}C$	0.2	
			$T_a=100^{\circ}C$	20	
Typical junction capacitance	$C_j$	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	280	220

Characteristics Curves

FIG.1:  $I_o$ - $T_a$  Curve

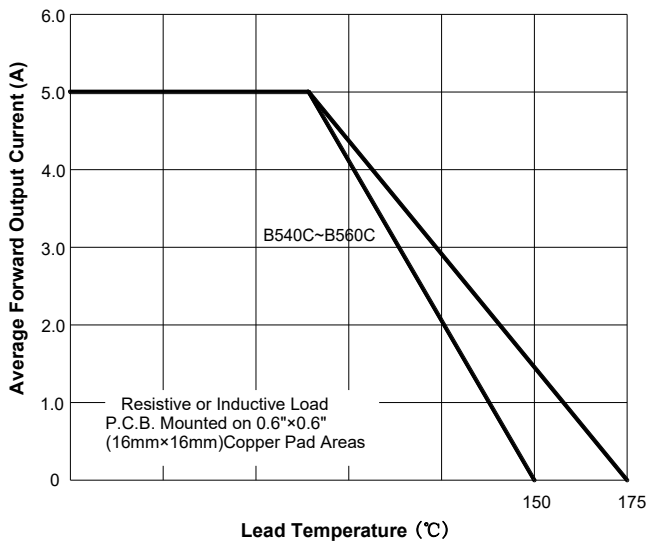


FIG.2: Forward Surge Current Capability

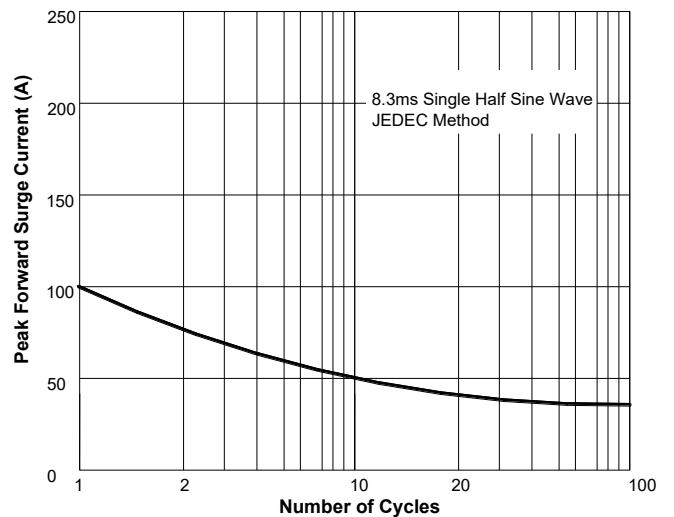


FIG.3: Forward Voltage

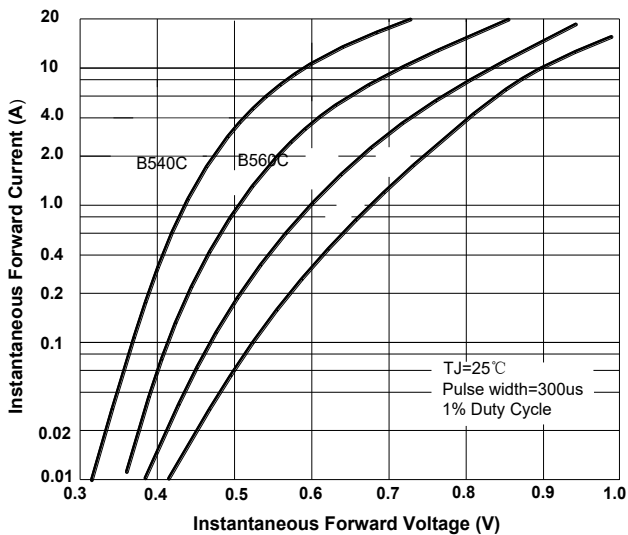
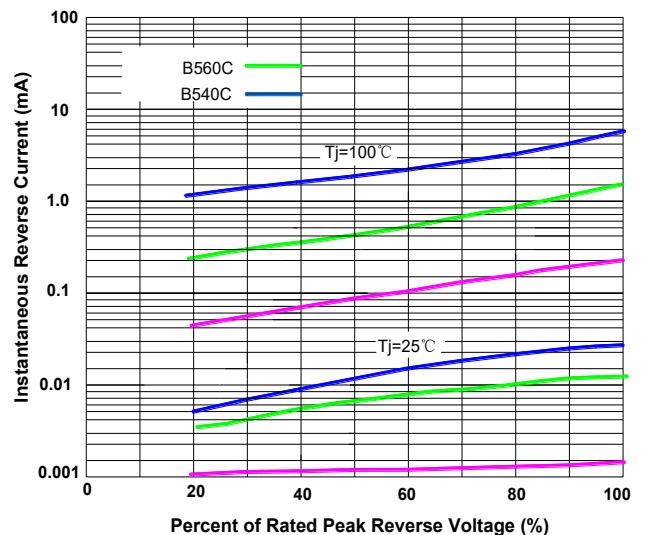


FIG.4: Typical Reverse Characteristics



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