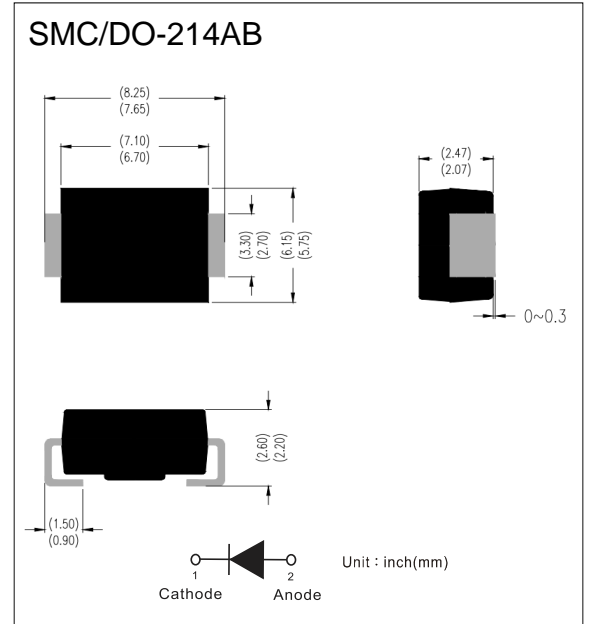


Features

- 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_a=25℃ Unless otherwise specified)

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

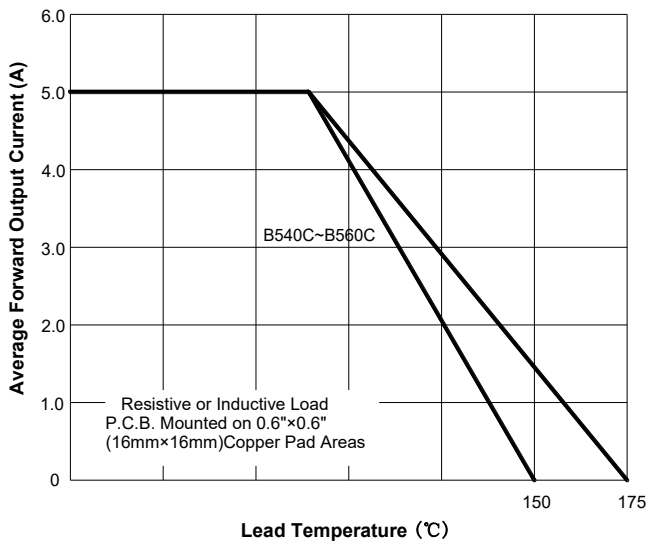


FIG.2: Forward Surge Current Capability

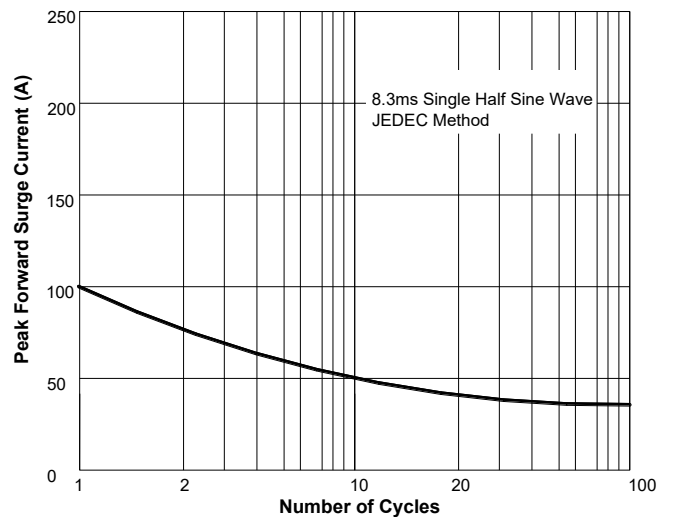


FIG.3: Forward Voltage

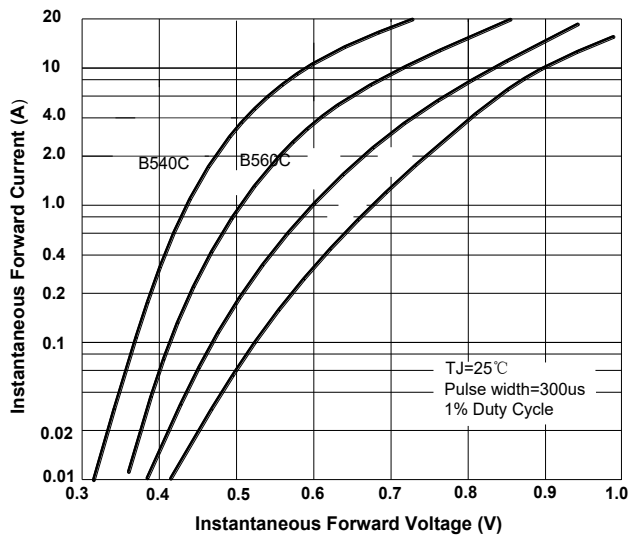


FIG.4: Typical Reverse Characteristics

