

WSB5516M

Schottky Barrier Diode

Features

- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- Standard products are Pb-free and Halogen-free



DO-214AC(SMA)



DO-214AC(SMA)

5516 = Device code
Marking

MECHANICAL DATA

- Case: SMA molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY

Order information

Device	Package	Shipping
WSB5516M-2/TR	DO-214AC(SMA)	5000/Tape&Reel

Absolute maximum ratings

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	V
Maximum RMS voltage	V_{RWS}	14	V
Maximum DC blocking voltage	V_{DC}	20	V
Maximum average forward rectified current at $T_L=90^{\circ}C$	$I_{F(AV)}$	3.0	A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	100	A

Thermal Characteristics

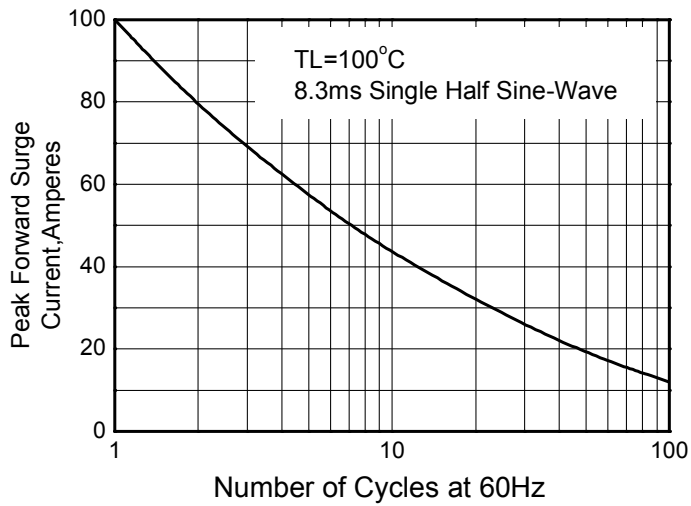
Parameter	Symbol	Value	Unit
Maximum thermal resistance	$R_{\theta JL}$	17	$^{\circ}C/W$
Operating temperature range	T_J	-55---+125	$^{\circ}C$
Storage temperature range	T_{STG}	-55---+125	$^{\circ}C$

Electronics characteristics ($T_A=25^{\circ}C$)

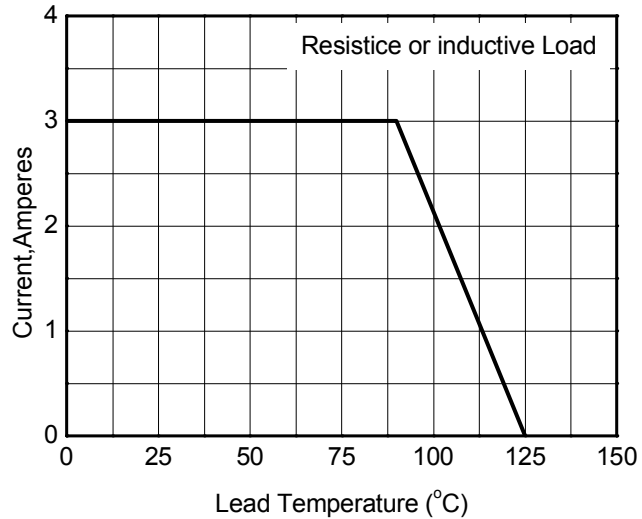
Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage @ $I_F=3.0A$ (NOTE1)	V_F	0.50	V
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$	I_R	0.5	mA
		20	

NOTE: 1.Pulse test: Pulse width 300us, duty cycle 1 %

Typical characteristics (Ta=25°C, unless otherwise noted)



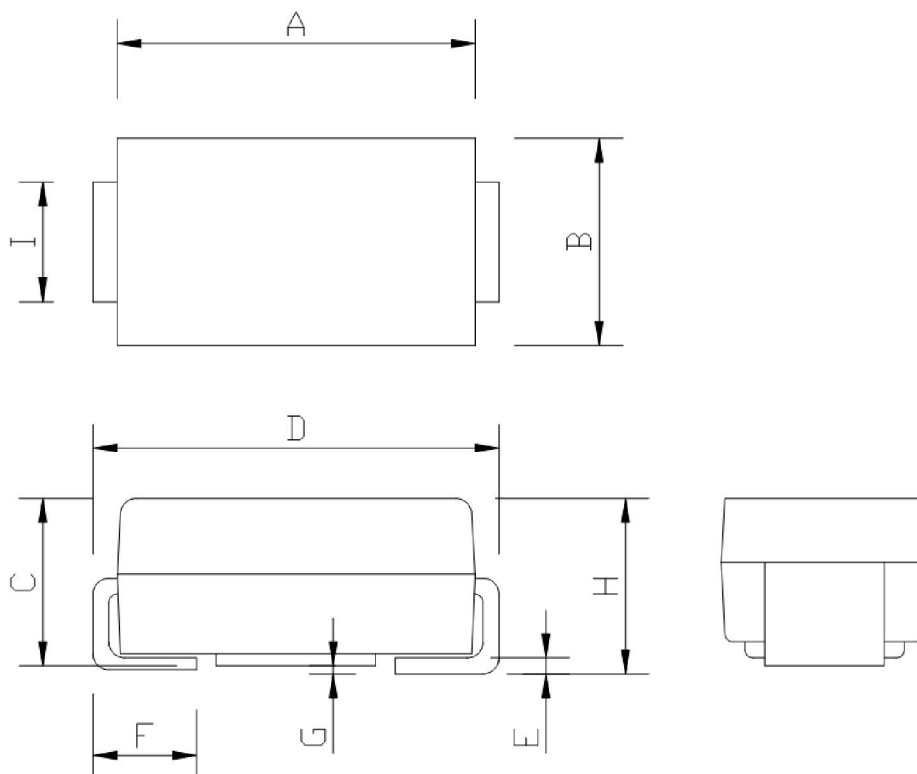
Peak Forward Surge Current



Forward Derating Curve

Package outline dimensions

DO-214AC(SMA)



Symbol	Dimensions in millimeter	
	Min.	Max.
A	4.25	4.65
B	2.40	2.80
C	1.85	2.15
D	4.85	5.35
E	0.10	0.30
F	0.90	1.50
G	0.20MAX	
H	1.90	2.30
I	1.35	1.65

Recommend PCB Layout (Unit: mm)

