SBRA8160NT3G
SCHOTTKY RECTIFIER DIODES

Features

- Average Forward Current:$I_{F(AV)}$=1A
- Polarity: Color band denotes cathode



SMA
(DO-214AC)



Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SBRA8160NT3G	SMA (DO-214AC)	S81ZU	2000

Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Test Conditions	Limit	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		60	V
Maximum RMS Voltage	V_{RMS}		42	V
Average Forward Current	$I_{F(AV)}$	60Hz Half-sine wave, Resistance load, FIG.1	1.0	A
Surge(Non-repetitive) Forward Current	I_{FSM}	60Hz Half-sine wave, 1 cycle, Ta=25°C	30	A
Junction Temperature	T_J		-55 ~ +150	°C
Storage Temperature	T_{STG}		-55 ~ +150	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Test Condition		Limit
Peak Forward Voltage	V_F	V	I_F=1.0A		0.70
Peak Reverse Current	I_{RRM1}	mA	V_{RM}=V_{RRM}	Ta=25°C	0.5
	I_{RRM2}			Ta=100°C	10
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient		65
	$R_{\theta J-L}$		Between junction and terminal		20

Notes:
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

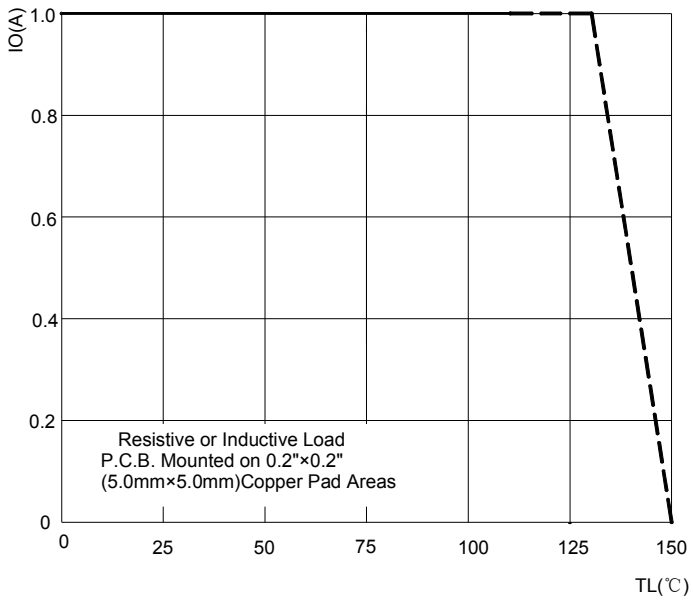


FIG2:Surge Forward Current Capadility

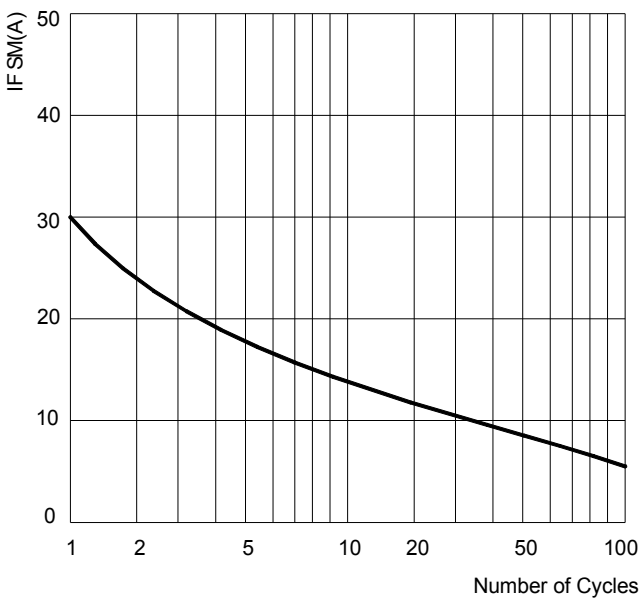


FIG.3: TYPICAL FORWARD CHARACTERISTICS

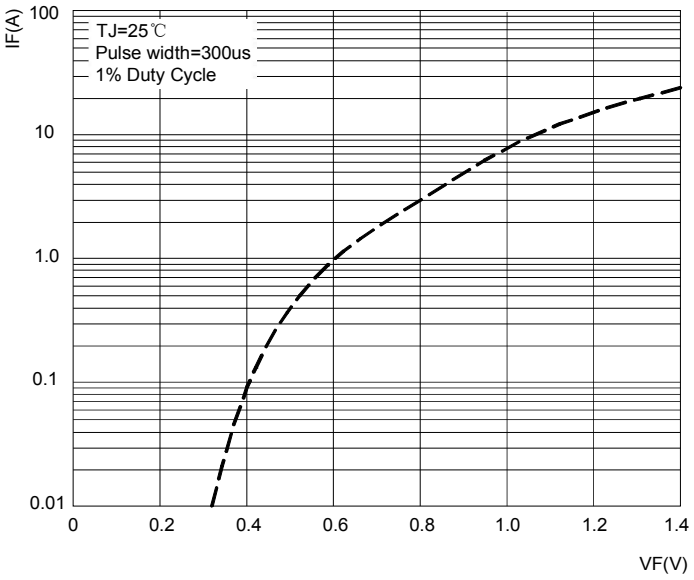
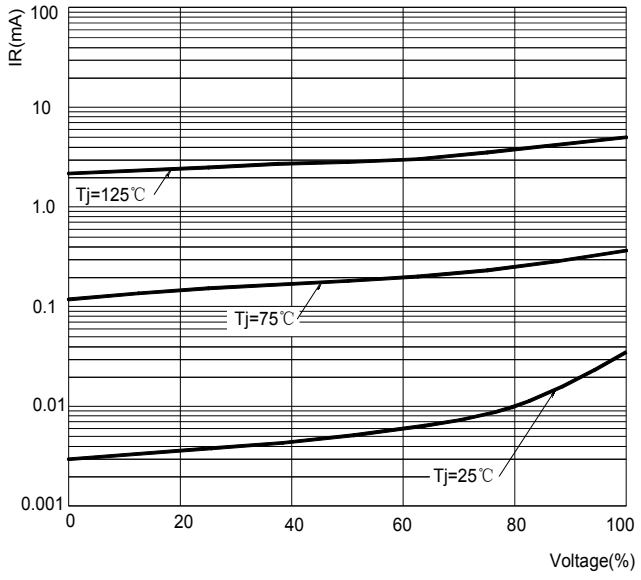
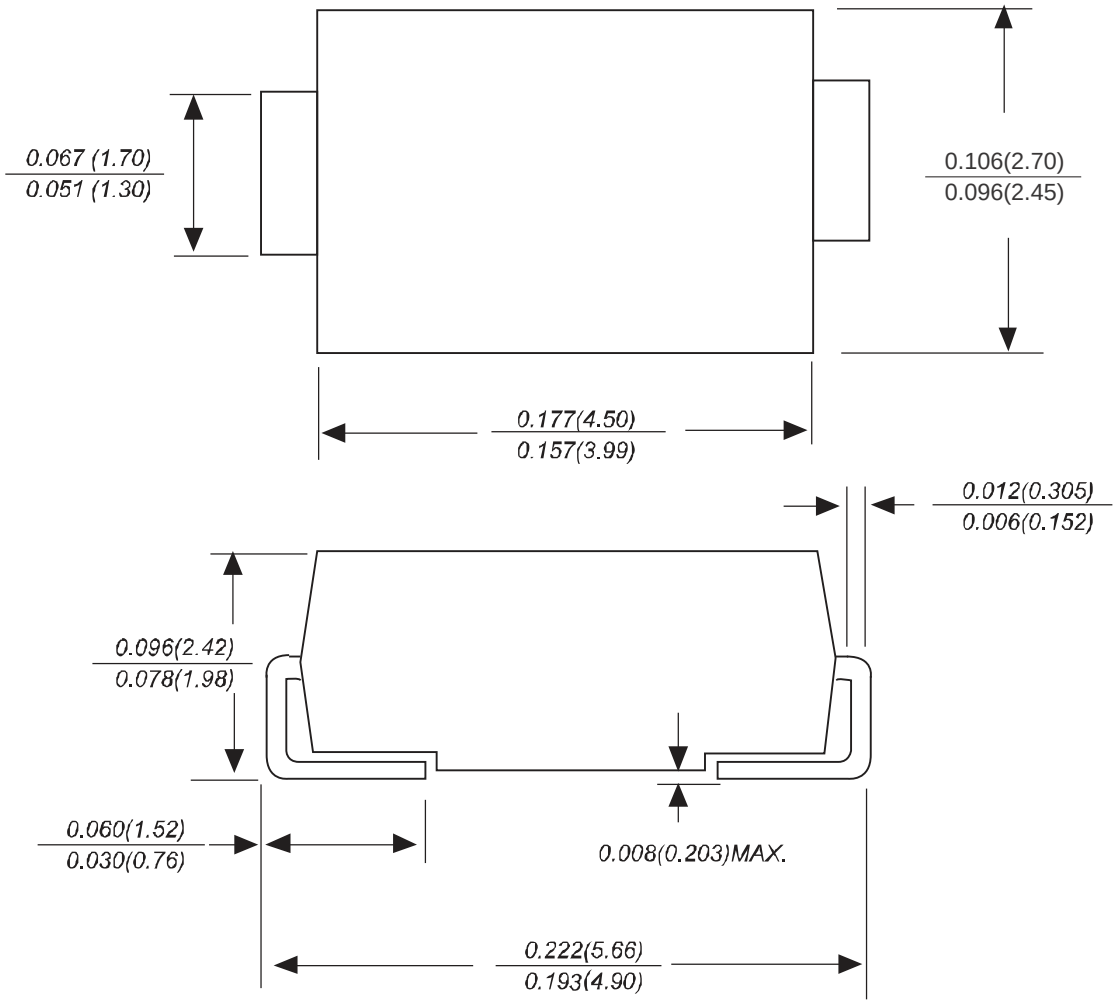


FIG.4：TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMA(DO-214AC)



Dimensions in inches and (millimeters)

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