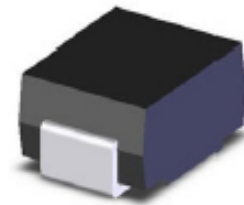


Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260 °C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



DO-214AA(SMB)

Mechanical Data

- Case:DO-214AA Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

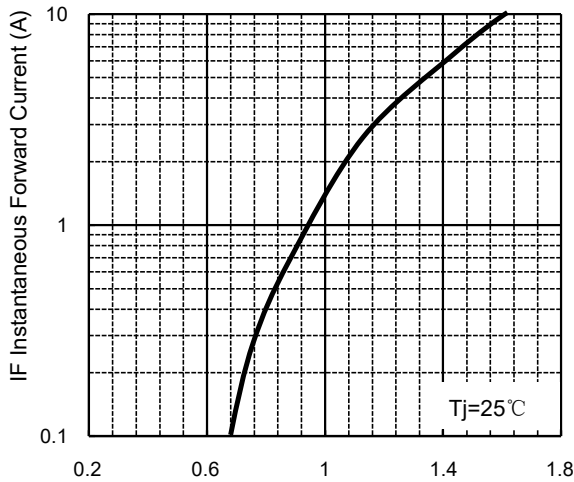
Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	80							A
@ $I_F=3.0A$ Maximum forward voltage	V_F	1.30							V
@ V_{DC} Maximum reverse current	I_R	10							μA
$T_A=25^{\circ}C$ $T_A=125^{\circ}C$		100							
$I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$ MAX. reverse recovery time	T_{RR}	150			250	500		nS	
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55							$^{\circ}C/W$
$V_R=4.0V$, $f=1MHz$ Type junction capacitance	C_j	45							pF
Operating junction and storage temperature rang	T_j , TSTG	-55 --- +150							$^{\circ}C$

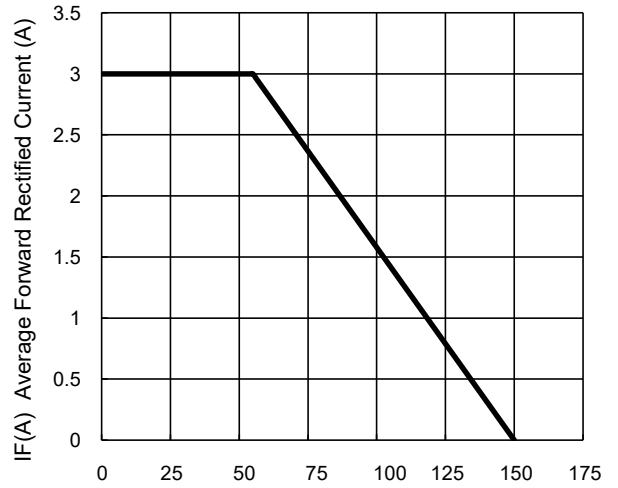
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



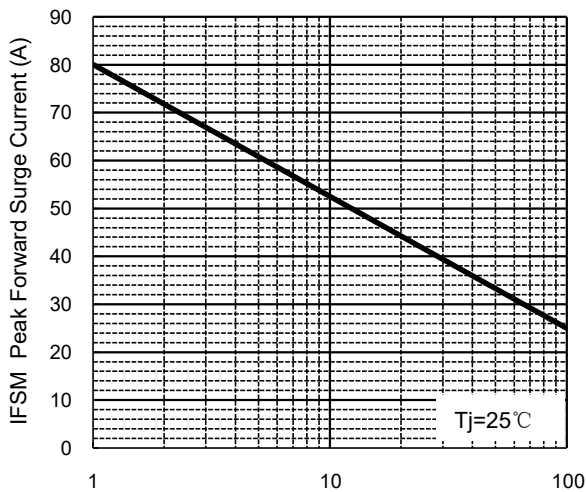
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



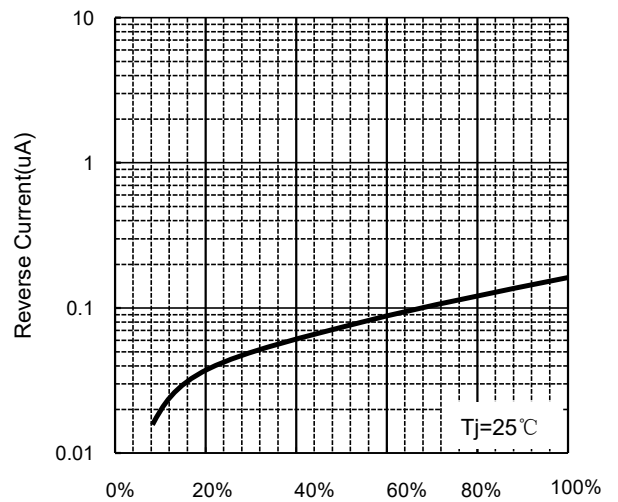
T_{amb} , ambient temperature ($^\circ\text{C}$)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

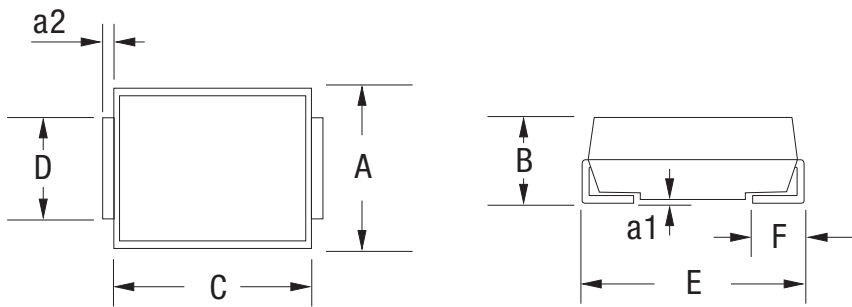


Number of Cycles at 60 Hz.

TYPICAL REVERSE CHARACTERISTICS



Percent Of Rated Peak Reverse voltage %

Dimension (Unit: mm)


A		B		C		D		E		F		a1		a2	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
3.300	3.940	2.050	2.450	4.050	4.650	1.800	2.200	5.080	5.590	0.760	1.520	-	0.203	0.152	0.305

Packaging

- Quantity: 3,000pcs
- 12mm wide tape on 330mm(13 inch)
diameter reel –specification EIA
Standard 481.