

REVERSE VOLTGE 50V~1000V

FORWARD CURRENT 1.5AMP Surface Mount Rectifiers

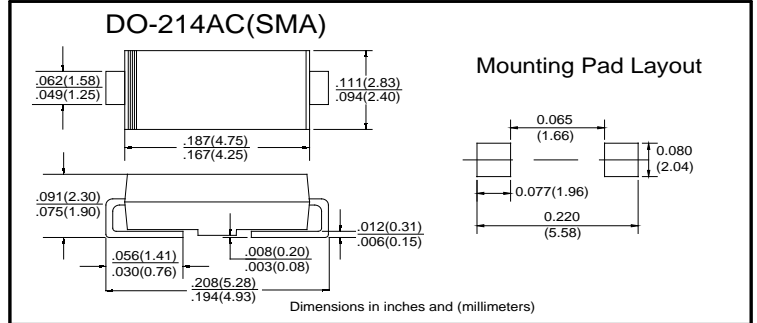
■ Features

- I_o 1.5A
- V_{RRM} 50V-1000V
- High surge current capability
- Cases: Molded plastic

■ Applications

- Rectifier

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	S2						
				AA	BA	DA	GA	JA	KA	MA
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_L=100^\circ\text{C}$	2.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half - sine wave , 1 cycle , $T_a=25^\circ\text{C}$	50						
Junction Temperature	T_J	$^\circ\text{C}$		-55~+150						
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +150						

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	S2						
				AA	BA	DA	GA	JA	KA	MA
Peak Forward Voltage	V_F	V	$I_F=2.0A$	1.0						
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$						
	I_{RRM2}			$T_a=125^\circ\text{C}$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C}/W$	Between junction and ambient	53 ¹⁾						
	$R_{\theta J-L}$		Between junction and terminal	16 ¹⁾						

Notes:

1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

Characteristics(Typical)

Fig. 1 – FORWARD CURRENT DERATING CURVE

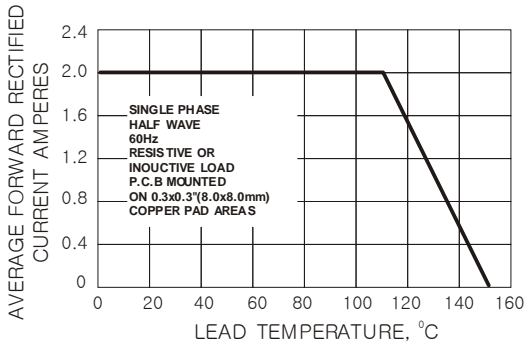


Fig. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

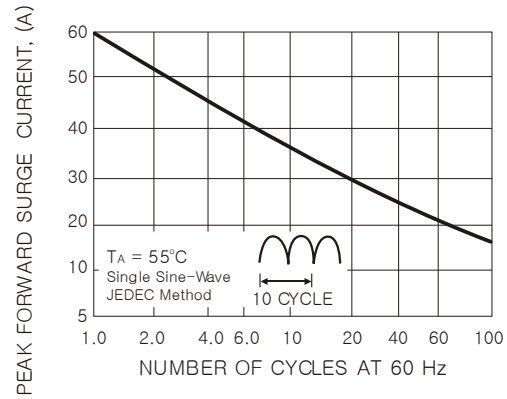


Fig. 3 – TYPICAL REVERSE CHARACTERISTICS

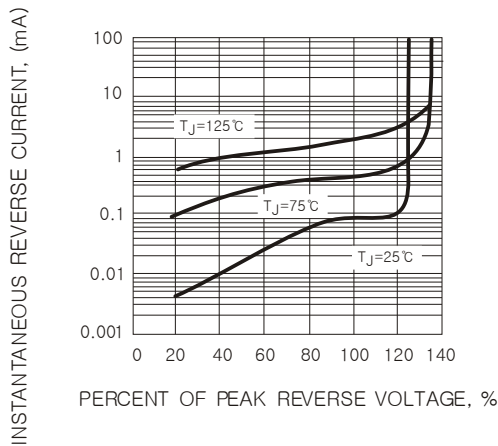


Fig. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

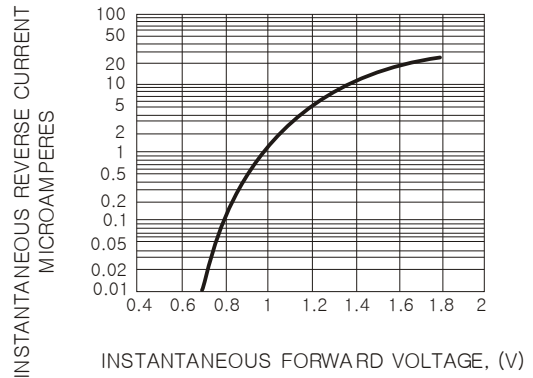


Fig. 5 – TRANSIENT THERMAL IMPEDANCE

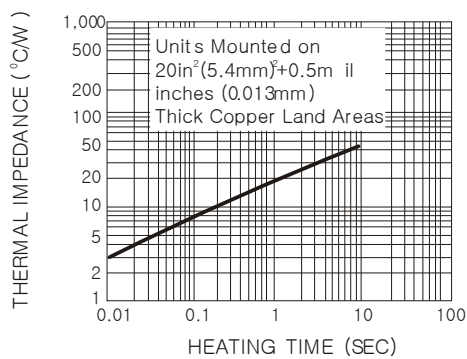


Fig. 6 – TYPICAL JUNCTION CAPACITANCE

