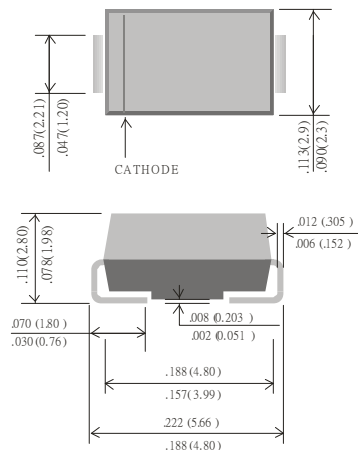


2A FAST RECOVERY SURFACE MOUNT RECTIFIER



CASE : DO-214AC(SMA)

DIMENSIONS IN INCHES AND (MILLIMETERS)

FEATURES

- LOW PROFILE PACKAGE
- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY 94V-0
- IDEAL FOR SURFACE MOUNTED APPLICATION
- GLASS PASSIVATED CHIP JUNCTION
- BUILT-IN STRAIN RELIEF DESIGN
- FAST SWITCHING FOR HIGH EFFICIENT
- HIGH TEMPERATURE SOLDERING : 260°C /10 SECONDS AT TERMINAL
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

MECHANICAL DATA

- CASE : JEDEC DO-214AC MOLDED PLAS BODY
- TERMINAL : SOLDER PLATED, SOLDERABLE PER MIL-STD- 750 METHOD 2026
- POLARITY : COLOR BAND DENOTES CATHODE

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	RS2 AAG	RS2 BAG	RS2 DAG	RS2 GAG	RS2 JAG	RS2 KAG	RS2 MAG	UNITS
MAXIMUM RECURRENT 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_O	2.0							A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50							A
TYPICAL THERMAL RESISTANCE	$R_{\theta JA}$	105							°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO + 150							°C
OPERATING TEMPERATURE RANGE	T_J	-55 TO + 150							°C

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER		SYMBOL	RS2 AAG	RS2 BAG	RS2 DAG	RS2 GAG	RS2 JAG	RS2 KAG	RS2 MAG	UNITS
MAXIMUM FORWARD VOLTAGE AT 2A		V _F	1.3							V
MAXIMUM DC REVERSE CURRENT	25°C	I _R	5.0							μA
	125°C		200							
TYPICAL JUNCTION CAPACITANCE		C _J	18							pF
MAXIMUM REVERSE RECOVERY TIME		T _{RR}	150				250	500		nS

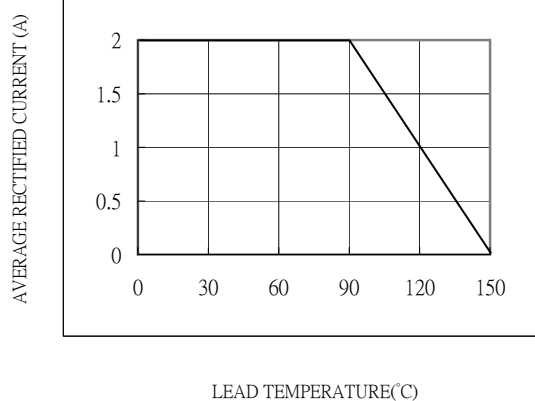


Fig.1-MAXIMUM FORWARD CURRENT DERATING CURVE

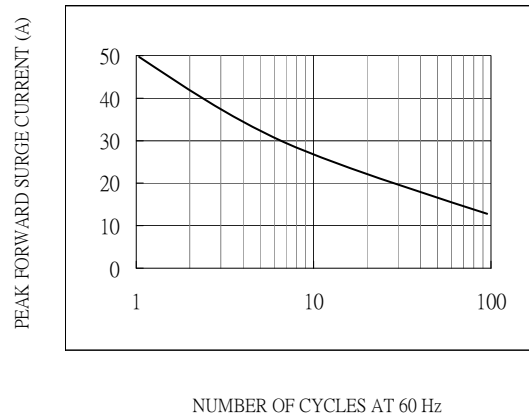


Fig.2-MAXIMUM FORWARD SURGE CURRENT

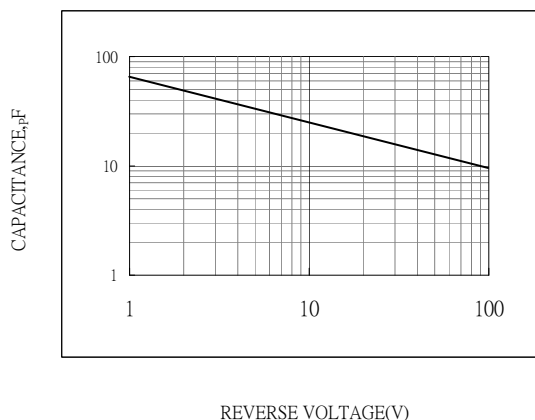


Fig.3-TYPICAL JUNCTION CAPACITANCE

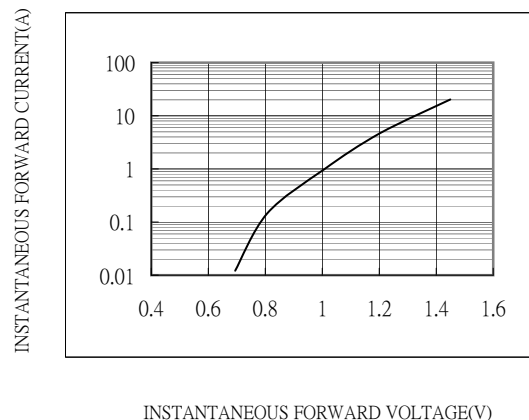


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

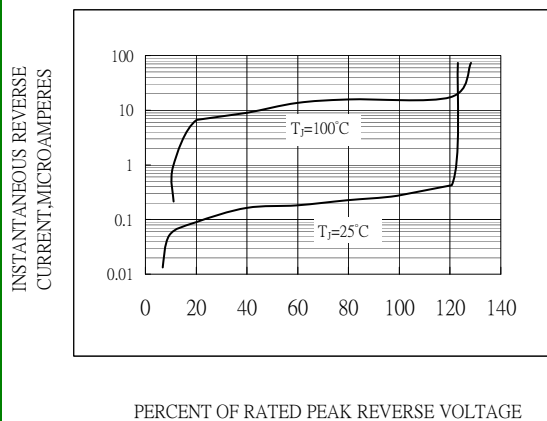


Fig.5-TYPICAL REVERSE CHARACTERISTICS