

Ordering Information	
Part Number	Remark
ABS $\Delta$ XX	General
ABS2xx-H	Halogen Free
ABS2xx-Q	Automotive

PRIMARY CHARACTERISTICS	
$I_F$	2A
$V_{RRM}$	20~200V
$I_{FSM}$	50A
$V_F$	0.52V, 0.66V, 0.83V, 0.87V, 0.90V
$T_J$ max	125°C , 150°C

ABS

Dimensions in inches and (millimeters)

### Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper
- AEC-Q101 qualified

### Mechanical Data

- Case: ABS
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.092 grams (approximate)

### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	ABS 220	ABS 230	ABS 240	ABS 250	ABS 260	ABS 280	ABS 2100	ABS 2150	ABS 2200	UNIT			
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V			
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V			
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V			
Maximum average forward rectified current	$I_F$	2.0									A			
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50.0									A			
Maximum Instantaneous Forward Voltage IF=2A @ 25°C	$V_F$	0.52			0.66		0.83		0.87		0.90	V		
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	$I_R$	0.5					0.2					10	5.0	mA
Typical Junction Capacitance(NOTE1)	$C_j$	90	70		60		50		35		pF			
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	100									50	°C/W		
Operating Temperature Range	$T_J$	-55 to +125					-55 to +150					°C		
Storage Temperature Range	$T_{STG}$	-55 to +150										°C		

### NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

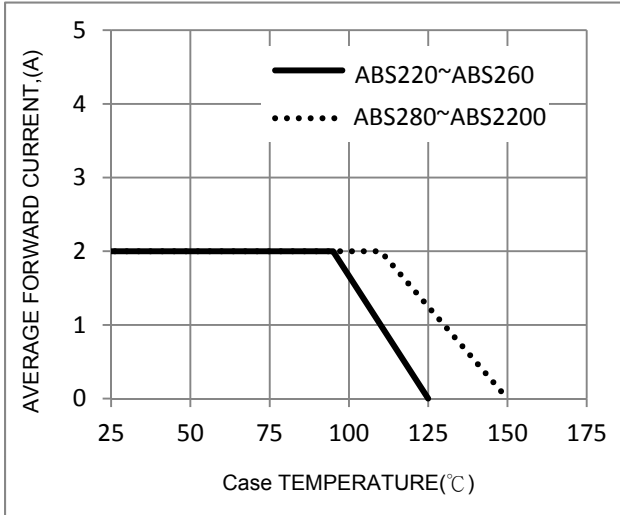


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

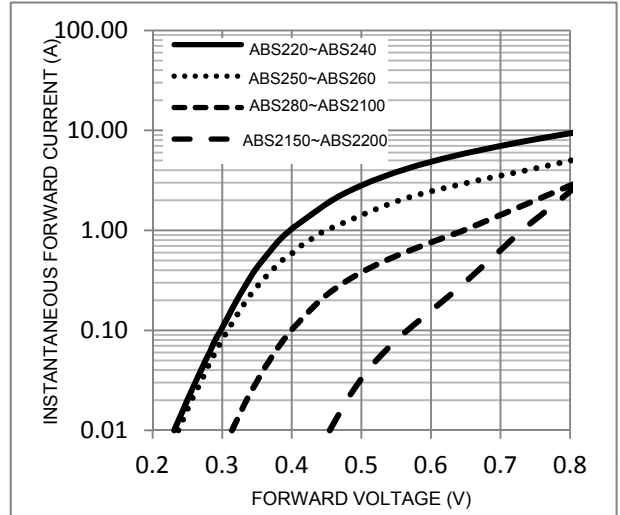


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

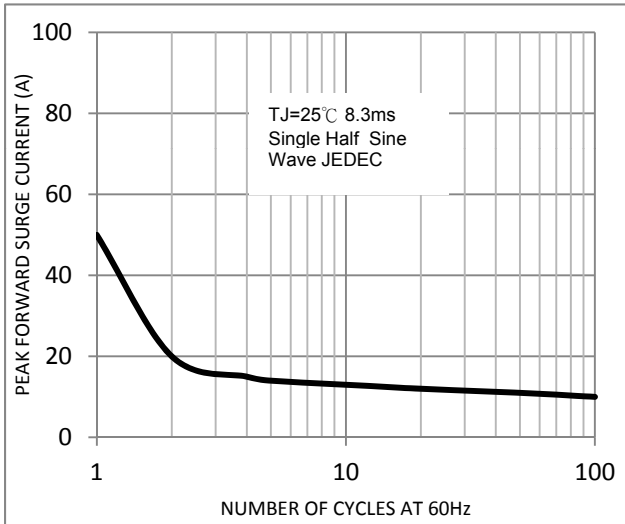


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

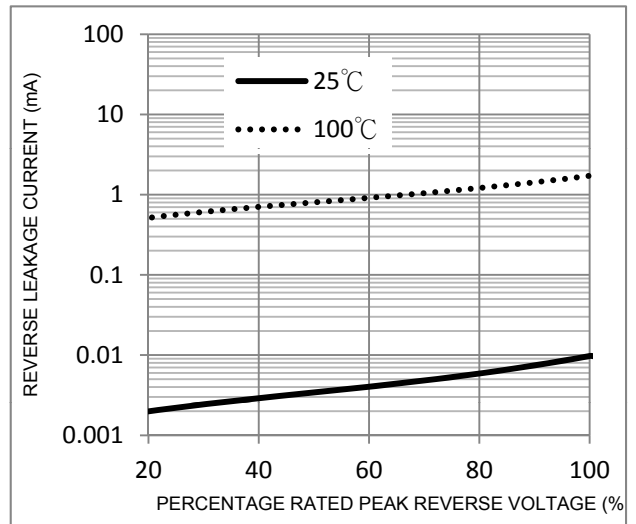


FIG. 5-TYPICAL JUNCTION CAPACITANCE

