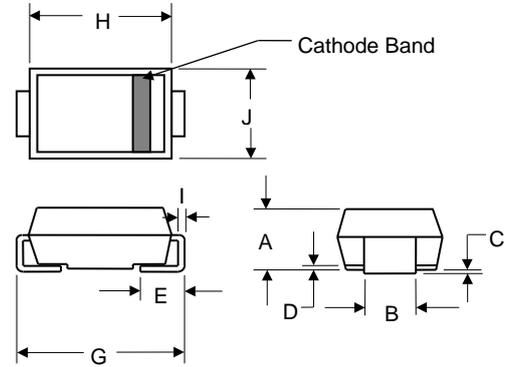


### Features

- \* LOW PROFILE PACKAGE
- \* PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY 94V-0
- \* IDEAL FOR SURFACE MOUNTED APPLICATION
- \* GLASS PASSIVATED CHIP JUNCTION
- \* BUILT-IN STRAIN RELIEF DESIGN
- \* ULTRA FAST RECOVERY TIME FOR HIGH EFFICIENT
- \* HIGH TEMPERATURE SOLDERING: 260°C/10 SECONDS AT TERMINALS



RoHS  
COMPLIANT



DO-214 AA (SMB)				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.084	0.096	2.13	2.44
B	0.073	0.085	1.85	2.15
C	0.002	0.008	0.051	0.2
D	-----	0.02	-----	0.51
E	0.03	0.06	0.76	1.52
G	0.205	0.22	5.21	5.59
H	0.16	0.18	4.06	4.57
I	0.006	0.012	0.152	0.305
J	0.13	0.155	3.3	3.94

### Mechanical Data

- \* CASE: JEDEC DO-214AA MOLDED PLASTIC BODY, DIMENSIONS IN INCHES AND MILLIMETERS
- \* TERMINAL: SOLDER PLATED, SOLDERABLE PER MIL-STD-750 METHOD 2026
- \* POLARITY: COLOR BAND DENOTES CATHODE
- \* WEIGHT: 0.093 GRAMS



## MURS205 THRU MURS260 2A ULTRA FAST RECOVERY SURFACE MOUNT RECTIFIERS

### Maximum Ratings And Electrical Characteristics Ratings (T<sub>A</sub>=25°C unless otherwise noted)

RATINGS	SYMBOL	MURS205	MURS210	MURS215	MURS220	MURS240	MURS260	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V <sub>RRM</sub>	50	100	150	200	400	600	V
MAXIMUM RMS VOLTAGE	V <sub>RMS</sub>	35	70	105	140	280	420	V
MAXIMUM DC BLOCKING VOLTAGE	V <sub>DC</sub>	50	100	150	200	400	600	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT T <sub>L</sub> =75°C	I <sub>O</sub>	2						A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I <sub>FSM</sub>	40				35		A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C <sub>J</sub>	50						PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	R <sub>θJL</sub>	15						°C/W
STORAGE TEMPERATURE RANGE	T <sub>STG</sub>	-55 to + 150						°C
OPERATING TEMPERATURE RANGE	T <sub>OP</sub>	-55 to + 150						°C

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

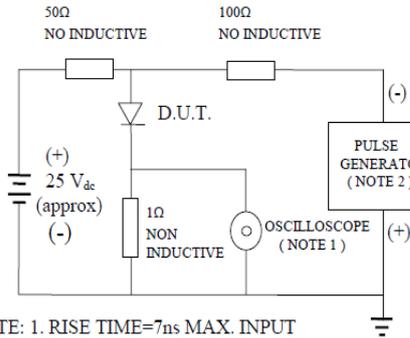
CHARACTERISTICS	SYMBOL	MURS205	MURS210	MURS215	MURS220	MURS240	MURS260	UNITS
MAXIMUM FORWARD VOLTAGE AT I <sub>O</sub> DC	V <sub>F</sub>	0.94				1.45		V
MAXIMUM DC REVERSE CURRENT AT T <sub>A</sub> =25°C	I <sub>R</sub>	2				5		μA
MAXIMUM DC REVERSE CURRENT AT T <sub>A</sub> =125°C	I <sub>R</sub>	250						μA
MAXIMUM REVERSE RECOVERY TIME (NOTE 3)	T <sub>RR</sub>	20				50		nS

**NOTES :**

- MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
- THERMAL RESISTANCE FROM JUNCTION TO AMBIENT AND JUNCTION TO LEAD P.C.B. MOUNTED ON 0.3x0.3"( 8.0x8.0 mm) COPPER PAD AREAS
- REVERSE RECOVERY TEST CONDITIONS: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A

### Ratings and Characteristic Curves

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1 MOhms 22PF  
 2. RISE TIME =10ns MAX. SOURCE IMPEDANCE=50 OHMS

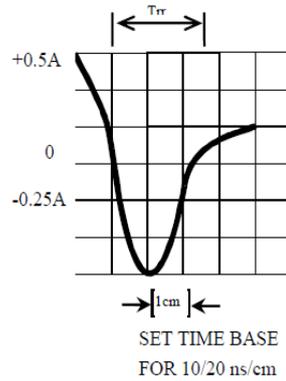


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

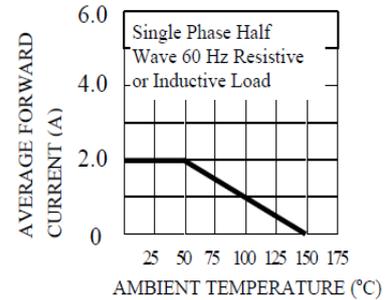


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

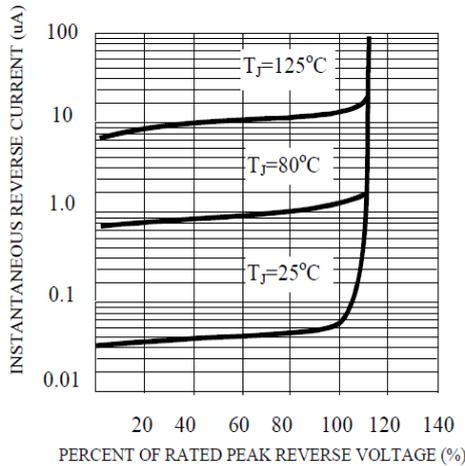


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

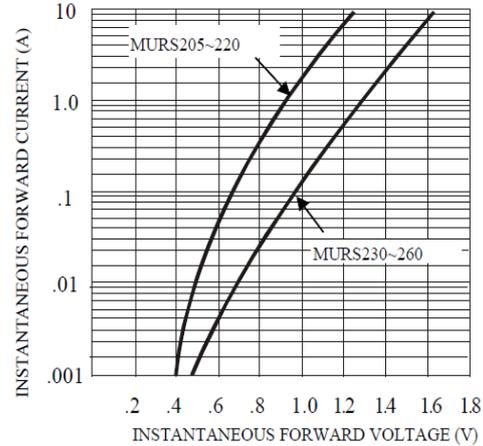


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

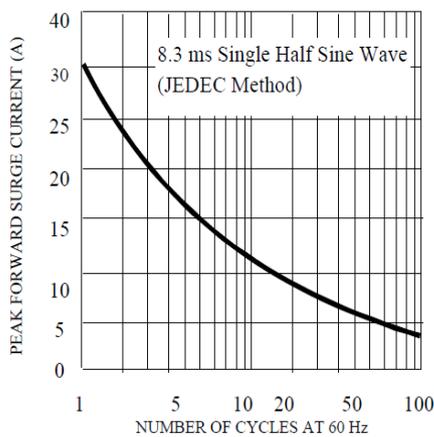
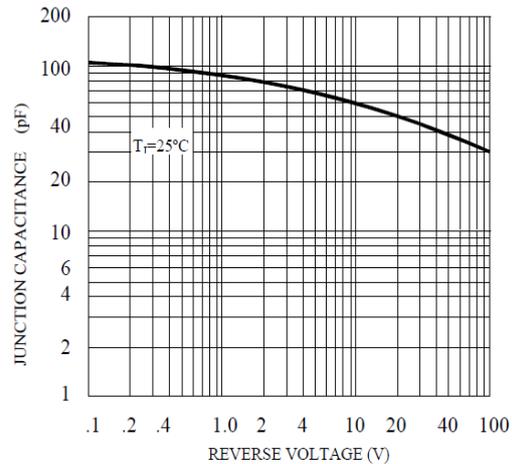


FIG. 6-TYPICAL JUNCTION CAPACITANCE





**MURS205 THRU MURS260**  
**2A ULTRA FAST RECOVERY SURFACE MOUNT RECTIFIERS**

**Ordering Information**

<b>Part No.</b>	<b>Package</b>	<b>Packing Code</b>	<b>Packing</b>
MURS205 THRU MURS260	DO-214 AA (SMB)	R30	3000pcs/Reel

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