

# **MURS240, MURS260**

**CREATEK Microelectronics** 

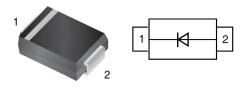
# Surface Mount Ultrafast Plastic Rectifier in DO-214AA/SMB

#### Features

- Glass passivated pellet chip junction
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low switching losses, high efficiency
- High forward surge capability

#### **Mechanical Data**

- Case: DO-214AA(SMB) (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 ° C/10 sec. at terminals



#### Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, and telecommunication.

### **Maximum Ratings and Electrical Characteristics**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbol	MURS240	MURS260	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	400	600	V
Maximum average forward rectified current at TL = 55 °C $\!$	I <sub>F(AV)</sub>	2.0		А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50	).0	A
Maxmum forward voltage at 2.0ADC	V <sub>F</sub>	1.30	1.45	V
Maximum DC reverse current $@T_J = 25^{\circ}C$ at rated DC blocking voltage $@T_J = 100^{\circ}C$	I <sub>R</sub>	5.0 150		uA
Maximum reverse recovery time (Note 1)	trr	25	50	ns
Typical junction capacitance (Note 2)	CJ	55		pF
Typical thermal resistance (Note3)	$R_{ ext{ heta}JL}$	60		°C/W
Operating junction temperature range	TJ	-55 to	) +150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150		°C

Notes: 1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

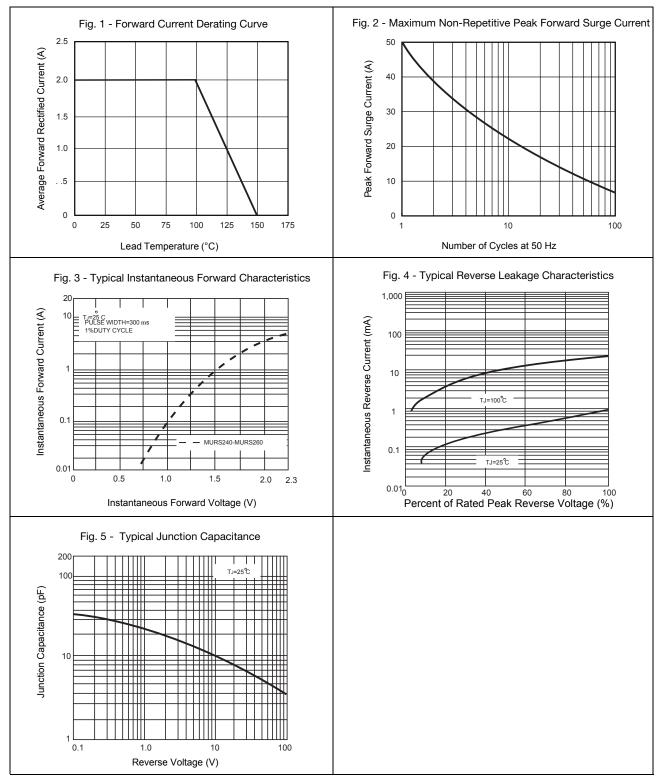
2. Measu d at 1MHz and applied reverse voltage of 4.0V D.C

3. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



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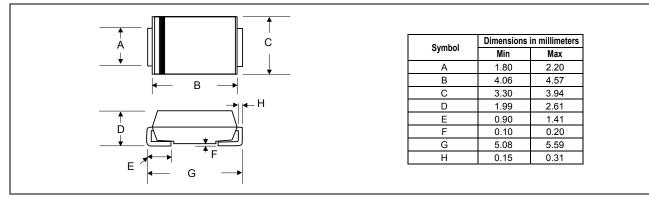
# Typical Characteristics (T<sub>amb</sub> = 25 °C unless otherwise specified)

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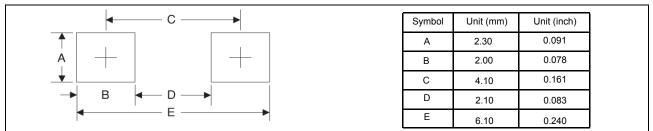
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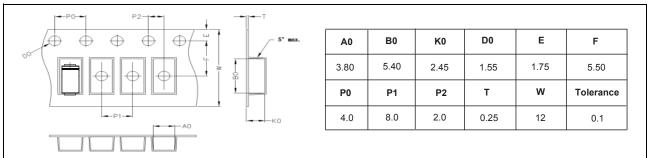
# **Package Dimensions**



### **PAD Dimensions**



# **Packing Information**



### Marking

П				]
	MURS2x0	X	Product No.	

### **Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
MURS2x0	SMB	Tape and reel	3000pcs / reel	EIA STD RS-481

# **Revision history**

[	Date	Revision	Changes
	23-May-2012	1.0	Initial release

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