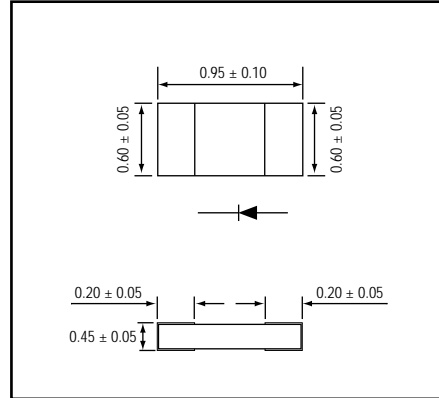


**NSCD024H**

● **OUTLINE DIMENSIONS**

Case : 0402-S

Unit : mm



● **FEATURES**

- \* Halogen-free type
- \* Compliance to RoHS product
- \* Lead less chip form, no lead damage
- \* Low power loss, High efficiency
- \* High current capability, low VF
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

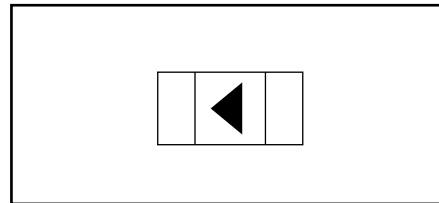
● **APPLICATION**

- \* Switching mode power supply applications
- \* Portable equipment battery applications
- \* High frequency rectification
- \* DC / DC Converter
- \* Telecommunication

● **MECHANICAL DATA**

**Case :** Packed with FRP substrate and epoxy underfilled  
**Terminals :** Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.  
**Polarity :** Laser marking symbols  
**Weight :** 0.0015 gram

● **MARKING**



● **PACKING**

- \* 3,000 pieces per 7" (178mm ± 2mm) reel
- \* 5 reels per box
- \* 6 boxes per carton

**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Conditions	Rating	Unit
			NSCD024H	
Repetitive peak reverse voltage	VRRM		40	V
Average forward current	IF(AV)		200	mA
Peak forward surge current	IFSM	8.3ms single half sine-wave	0.5	A
Junction temperature	Tj		125	°C
Operating temperature range	Topr		-40 to +125	°C
Storage temperature range	TSTG		-40 to +125	°C

**Electrical characteristics (Ta = 25 °C)**

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 10mA	-	0.31	0.35	V
		IF = 20mA	-	0.35	-	
		IF = 100mA	-	0.45	0.50	
Repetitive peak reverse current	IRRM	VR = @ 10V , Ta = 25 °C	-	-	0.50	uA

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

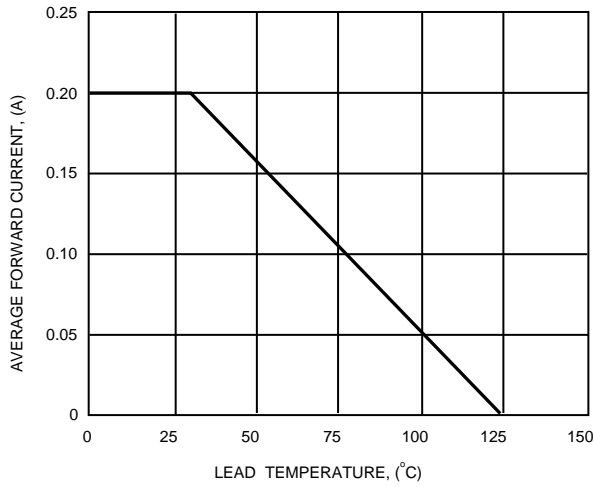


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

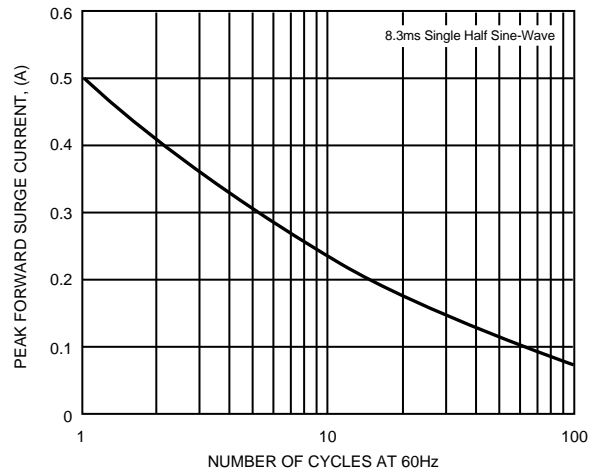


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

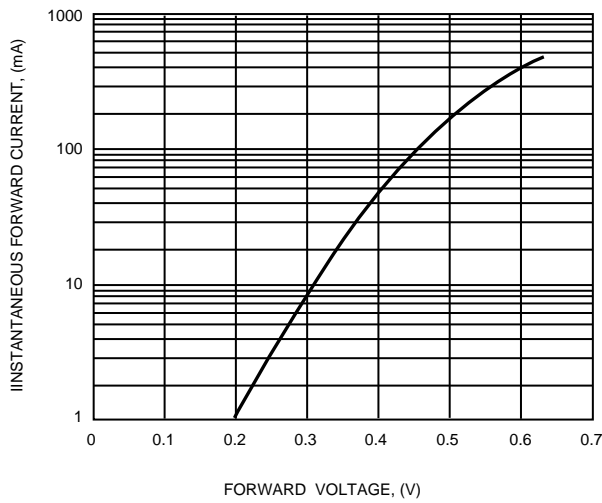


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

